



Strain identifier

BacDive ID: 13918 **DOI:** 10.13145/bacdive13918.20190402.4
Type strain: yes **Designation:** B4P
Culture col. no.: DSM 14743, LMG 26918

Sections

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Name and taxonomic classification

Ref.: 5438	Domain	Bacteria
Ref.: 5438	Phylum	Proteobacteria
Ref.: 5438	Class	Betaproteobacteria
Ref.: 5438	Order	Rhizobiales
Ref.: 5438	Family	Zoogloeaceae
Ref.: 5438	Genus	Thauera
Ref.: 5438	Species	Thauera phenylacetica
Ref.: 5438	Full Scientific Name	Thauera phenylacetica Mechichi et al. 2002
Ref.: 5438	Designation:	B4P
Ref.: 5438	Type strain:	yes

Prokaryotic Nomenclature Up-to-date (PNU)

Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 56:1
Ref.: 20215	Literature reference	Int. J. Syst. Bacteriol. 30:237
Ref.: 20215	Genus	Thauera
Ref.: 20215	Taxonomical status	gen. nov. (VP)
Ref.: 20215	Literature reference	Int. J. Syst. Evol. Microbiol. 56:443*
Ref.: 20215	Species	Thauera phenylacetica
Ref.: 20215	Taxonomical status	sp. nov. (VL)

Ref.: 20215 Literature reference Int. J. Syst. Evol. Microbiol. 52:1437
 Ref.: 20215 **Full Scientific Name** Thauera phenylacetica Mechichi et al. 2002

Morphology and physiology

Ref.: 5438 **Oxygen tolerance** aerobe
 Ref.: 5438 **Oxygen tolerance** anaerobe

Culture and growth conditions

Ref.: 5438 **Culture medium** THAUERA AROMATICA MEDIUM (DSMZ Medium 586), 30°C, pH 7.3, anaerobic or aerobic. For aerobic growth, omit nitrate
 Ref.: 5438 **Culture medium growth** yes
 Ref.: 5438 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium586.pdf

Ref.: 5438 **Culture medium** R2A MEDIUM (DSMZ Medium 830), 30°C, aerobic
 Ref.: 5438 **Culture medium growth** yes
 Ref.: 5438 **Culture medium link** https://www.dsmz.de/microorganisms/medium/pdf/DSMZ_Medium830.pdf

Ref.: 32701 **Culture medium** MEDIUM 566- Reasoner's 2A 2A agar for Flavobacterium micromati
 Ref.: 32701 **Culture medium growth** yes
 Ref.: 32701 **Culture medium composition** Distilled water make up to (1000.000 ml);R2A agar (18.200 g)

		Kind of temperature	Temperature
Ref.: 5438	Temperatures	growth	30 °C
Ref.: 32701		growth	30 °C

Ref.: 5438 **Temperature range** mesophilic
 Ref.: 32701 **Temperature range** mesophilic

Isolation, sampling and environmental information

Ref.: 5438 **Sample type/isolated from** anaerobic sewage sludge
 Ref.: 5438 **Geographic location (country and/or sea, region)** Konstanz

Ref.: 5438 **Country** Germany

Ref.: 5438 **Continent** Europe

Isolation sources categories

Cat1	Cat2	Cat3
#Engineered	#Waste	#Sewage sludge
#Condition	#Anoxic (anaerobic)	-

Application and interaction

Ref.: 5438 **Biosafety level** 1 Risk group (German classification)

Molecular biology

	Sequence database	Sequence accession description	Sequence accession number	Sequence length(bp)	Associated NCBI tax ID	
Ref.: 20218	Marker Gene (EMBL Direct submission)	Thauera sp. B4P 16S rRNA gene, strain B4P	AJ315678	1511	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont1, whole genome shotgun sequence	AMXF01000001	229006	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont2, whole genome shotgun sequence	AMXF01000002	68370	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont3, whole genome shotgun sequence	AMXF01000003	65506	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont4, whole genome shotgun sequence	AMXF01000004	56740	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont5, whole genome shotgun sequence	AMXF01000005	54064	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont6, whole genome shotgun sequence	AMXF01000006	52602	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont7, whole genome shotgun sequence	AMXF01000007	50569	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont8, whole genome shotgun sequence	AMXF01000008	45797	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont9, whole genome shotgun sequence	AMXF01000009	44547	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont10, whole genome shotgun sequence	AMXF01000010	42831	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont11, whole genome shotgun sequence	AMXF01000011	42825	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont12, whole genome shotgun sequence	AMXF01000012	42164	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont13, whole genome shotgun sequence	AMXF01000013	42134	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont14, whole genome shotgun sequence	AMXF01000014	41209	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont15, whole genome shotgun sequence	AMXF01000015	41017	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont16, whole genome shotgun sequence	AMXF01000016	39238	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont17, whole genome shotgun sequence	AMXF01000017	38842	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont18, whole genome shotgun sequence	AMXF01000018	38292	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont19, whole genome shotgun sequence	AMXF01000019	36774	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont20, whole genome shotgun sequence	AMXF01000020	36167	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont21, whole genome shotgun sequence	AMXF01000021	35957	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont22, whole genome shotgun sequence	AMXF01000022	34678	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont23, whole genome shotgun sequence	AMXF01000023	34425	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont24, whole genome shotgun sequence	AMXF01000024	33266	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont25, whole genome shotgun sequence	AMXF01000025	33017	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont26, whole genome shotgun sequence	AMXF01000026	31659	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont27, whole genome shotgun sequence	AMXF01000027	31496	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont28, whole genome shotgun sequence	AMXF01000028	31481	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont29, whole genome shotgun sequence	AMXF01000029	31443	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont30, whole genome shotgun sequence	AMXF01000030	31036	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont31, whole genome shotgun sequence	AMXF01000031	30861	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont32, whole genome shotgun sequence	AMXF01000032	30764	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont33, whole genome shotgun sequence	AMXF01000033	30206	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont34, whole genome shotgun sequence	AMXF01000034	29425	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont35, whole genome shotgun sequence	AMXF01000035	29077	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont36, whole genome shotgun sequence	AMXF01000036	28825	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont37, whole genome shotgun sequence	AMXF01000037	28363	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont38, whole genome shotgun sequence	AMXF01000038	27985	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont39, whole genome shotgun sequence	AMXF01000039	27433	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont40, whole genome shotgun sequence	AMXF01000040	27013	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont41, whole genome shotgun sequence	AMXF01000041	25609	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont42, whole genome shotgun sequence	AMXF01000042	25374	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont43, whole genome shotgun sequence	AMXF01000043	25314	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont44, whole genome shotgun sequence	AMXF01000044	25246	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont45, whole genome shotgun sequence	AMXF01000045	24741	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont46, whole genome shotgun sequence	AMXF01000046	24525	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont47, whole genome shotgun sequence	AMXF01000047	24424	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont48, whole genome shotgun sequence	AMXF01000048	23679	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont49, whole genome shotgun sequence	AMXF01000049	23597	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont50, whole genome shotgun sequence	AMXF01000050	23465	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont51, whole genome shotgun sequence	AMXF01000051	23231	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont52, whole genome shotgun sequence	AMXF01000052	23150	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont53, whole genome shotgun sequence	AMXF01000053	22847	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont54, whole genome shotgun sequence	AMXF01000054	22817	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont55, whole genome shotgun sequence	AMXF01000055	22507	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont56, whole genome shotgun sequence	AMXF01000056	22486	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont57, whole genome shotgun sequence	AMXF01000057	21550	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont58, whole genome shotgun sequence	AMXF01000058	21501	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont59, whole genome shotgun sequence	AMXF01000059	21414	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont60, whole genome shotgun sequence	AMXF01000060	21231	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont61, whole genome shotgun sequence	AMXF01000061	20921	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont62, whole genome shotgun sequence	AMXF01000062	20739	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont63, whole genome shotgun sequence	AMXF01000063	20381	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont64, whole genome shotgun sequence	AMXF01000064	20274	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont65, whole genome shotgun sequence	AMXF01000065	19850	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont66, whole genome shotgun sequence	AMXF01000066	19624	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont67, whole genome shotgun sequence	AMXF01000067	19557	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont68, whole genome shotgun sequence	AMXF01000068	19513	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont69, whole genome shotgun sequence	AMXF01000069	19229	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont70, whole genome shotgun sequence	AMXF01000070	19098	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont71, whole genome shotgun sequence	AMXF01000071	18930	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont72, whole genome shotgun sequence	AMXF01000072	18882	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont73, whole genome shotgun sequence	AMXF01000073	17910	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont74, whole genome shotgun sequence	AMXF01000074	17797	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont75, whole genome shotgun sequence	AMXF01000075	17787	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont76, whole genome shotgun sequence	AMXF01000076	17696	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont77, whole genome shotgun sequence	AMXF01000077	17387	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont78, whole genome shotgun sequence	AMXF01000078	17080	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont79, whole genome shotgun sequence	AMXF01000079	16661	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont80, whole genome shotgun sequence	AMXF01000080	16582	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont81, whole genome shotgun sequence	AMXF01000081	16461	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont82, whole genome shotgun sequence	AMXF01000082	16404	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont83, whole genome shotgun sequence	AMXF01000083	16219	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont84, whole genome shotgun sequence	AMXF01000084	16132	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont85, whole genome shotgun sequence	AMXF01000085	15992	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont86, whole genome shotgun sequence	AMXF01000086	15916	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont87, whole genome shotgun sequence	AMXF01000087	15797	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont88, whole genome shotgun sequence	AMXF01000088	15558	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont89, whole genome shotgun sequence	AMXF01000089	15276	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont90, whole genome shotgun sequence	AMXF01000090	15130	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont91, whole genome shotgun sequence	AMXF01000091	15002	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont92, whole genome shotgun sequence	AMXF01000092	14944	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont93, whole genome shotgun sequence	AMXF01000093	14830	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont94, whole genome shotgun sequence	AMXF01000094	14798	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont95, whole genome shotgun sequence	AMXF01000095	14644	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont96, whole genome shotgun sequence	AMXF01000096	14623	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont97, whole genome shotgun sequence	AMXF01000097	14615	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont98, whole genome shotgun sequence	AMXF01000098	14571	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont99, whole genome shotgun sequence	AMXF01000099	14423	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont100, whole genome shotgun sequence	AMXF01000100	14328	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont101, whole genome shotgun sequence	AMXF01000101	14133	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont102, whole genome shotgun sequence	AMXF01000102	13980	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont103, whole genome shotgun sequence	AMXF01000103	13437	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont104, whole genome shotgun sequence	AMXF01000104	13391	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont105, whole genome shotgun sequence	AMXF01000105	13338	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont106, whole genome shotgun sequence	AMXF01000106	13313	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont107, whole genome shotgun sequence	AMXF01000107	13237	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont108, whole genome shotgun sequence	AMXF01000108	13111	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont109, whole genome shotgun sequence	AMXF01000109	13068	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont110, whole genome shotgun sequence	AMXF01000110	12995	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont111, whole genome shotgun sequence	AMXF01000111	12971	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont112, whole genome shotgun sequence	AMXF01000112	12961	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont113, whole genome shotgun sequence	AMXF01000113	12899	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont114, whole genome shotgun sequence	AMXF01000114	12727	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont115, whole genome shotgun sequence	AMXF01000115	12633	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont116, whole genome shotgun sequence	AMXF01000116	12607	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont117, whole genome shotgun sequence	AMXF01000117	12543	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont118, whole genome shotgun sequence	AMXF01000118	12478	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont119, whole genome shotgun sequence	AMXF01000119	12433	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont120, whole genome shotgun sequence	AMXF01000120	12292	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont121, whole genome shotgun sequence	AMXF01000121	12182	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont122, whole genome shotgun sequence	AMXF01000122	12143	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont123, whole genome shotgun sequence	AMXF01000123	12103	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont124, whole genome shotgun sequence	AMXF01000124	12024	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont125, whole genome shotgun sequence	AMXF01000125	11905	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont126, whole genome shotgun sequence	AMXF01000126	11888	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont127, whole genome shotgun sequence	AMXF01000127	11580	1234382	*



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Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont128, whole genome shotgun sequence	AMXF01000128	11406	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont129, whole genome shotgun sequence	AMXF01000129	11229	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont130, whole genome shotgun sequence	AMXF01000130	11157	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont131, whole genome shotgun sequence	AMXF01000131	11129	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont132, whole genome shotgun sequence	AMXF01000132	11124	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont133, whole genome shotgun sequence	AMXF01000133	11066	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont134, whole genome shotgun sequence	AMXF01000134	11001	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont135, whole genome shotgun sequence	AMXF01000135	10997	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont136, whole genome shotgun sequence	AMXF01000136	10960	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont137, whole genome shotgun sequence	AMXF01000137	10883	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont138, whole genome shotgun sequence	AMXF01000138	10868	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont139, whole genome shotgun sequence	AMXF01000139	10828	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont140, whole genome shotgun sequence	AMXF01000140	10580	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont141, whole genome shotgun sequence	AMXF01000141	10469	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont142, whole genome shotgun sequence	AMXF01000142	10408	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont143, whole genome shotgun sequence	AMXF01000143	10371	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont144, whole genome shotgun sequence	AMXF01000144	10276	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont145, whole genome shotgun sequence	AMXF01000145	10179	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont146, whole genome shotgun sequence	AMXF01000146	10170	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont147, whole genome shotgun sequence	AMXF01000147	10162	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont148, whole genome shotgun sequence	AMXF01000148	10138	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont149, whole genome shotgun sequence	AMXF01000149	10087	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont150, whole genome shotgun sequence	AMXF01000150	9976	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont151, whole genome shotgun sequence	AMXF01000151	9937	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont152, whole genome shotgun sequence	AMXF01000152	9929	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont153, whole genome shotgun sequence	AMXF01000153	9891	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont154, whole genome shotgun sequence	AMXF01000154	9840	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont155, whole genome shotgun sequence	AMXF01000155	9702	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont156, whole genome shotgun sequence	AMXF01000156	9586	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont157, whole genome shotgun sequence	AMXF01000157	9555	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont158, whole genome shotgun sequence	AMXF01000158	9540	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont159, whole genome shotgun sequence	AMXF01000159	9495	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont160, whole genome shotgun sequence	AMXF01000160	9492	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont161, whole genome shotgun sequence	AMXF01000161	9462	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont162, whole genome shotgun sequence	AMXF01000162	9409	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont163, whole genome shotgun sequence	AMXF01000163	9381	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont164, whole genome shotgun sequence	AMXF01000164	9255	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont165, whole genome shotgun sequence	AMXF01000165	9220	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont166, whole genome shotgun sequence	AMXF01000166	9190	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont167, whole genome shotgun sequence	AMXF01000167	9171	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont168, whole genome shotgun sequence	AMXF01000168	9146	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont169, whole genome shotgun sequence	AMXF01000169	9095	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont170, whole genome shotgun sequence	AMXF01000170	9081	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont171, whole genome shotgun sequence	AMXF01000171	9076	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont172, whole genome shotgun sequence	AMXF01000172	9072	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont173, whole genome shotgun sequence	AMXF01000173	9000	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont174, whole genome shotgun sequence	AMXF01000174	8960	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont175, whole genome shotgun sequence	AMXF01000175	8936	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont176, whole genome shotgun sequence	AMXF01000176	8916	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont177, whole genome shotgun sequence	AMXF01000177	8915	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont178, whole genome shotgun sequence	AMXF01000178	8883	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont179, whole genome shotgun sequence	AMXF01000179	8692	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont180, whole genome shotgun sequence	AMXF01000180	8624	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont181, whole genome shotgun sequence	AMXF01000181	8564	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont182, whole genome shotgun sequence	AMXF01000182	8540	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont183, whole genome shotgun sequence	AMXF01000183	8450	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont184, whole genome shotgun sequence	AMXF01000184	8378	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont185, whole genome shotgun sequence	AMXF01000185	8266	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont186, whole genome shotgun sequence	AMXF01000186	8235	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont187, whole genome shotgun sequence	AMXF01000187	8174	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont188, whole genome shotgun sequence	AMXF01000188	8037	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont189, whole genome shotgun sequence	AMXF01000189	8004	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont190, whole genome shotgun sequence	AMXF01000190	7969	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont191, whole genome shotgun sequence	AMXF01000191	7965	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont192, whole genome shotgun sequence	AMXF01000192	7873	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont193, whole genome shotgun sequence	AMXF01000193	7846	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont194, whole genome shotgun sequence	AMXF01000194	7814	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont195, whole genome shotgun sequence	AMXF01000195	7704	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont196, whole genome shotgun sequence	AMXF01000196	7652	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont197, whole genome shotgun sequence	AMXF01000197	7639	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont198, whole genome shotgun sequence	AMXF01000198	7576	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont199, whole genome shotgun sequence	AMXF01000199	7576	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont200, whole genome shotgun sequence	AMXF01000200	7534	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont201, whole genome shotgun sequence	AMXF01000201	7496	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont202, whole genome shotgun sequence	AMXF01000202	7380	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont203, whole genome shotgun sequence	AMXF01000203	7290	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont204, whole genome shotgun sequence	AMXF01000204	7260	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont205, whole genome shotgun sequence	AMXF01000205	7248	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont206, whole genome shotgun sequence	AMXF01000206	7245	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont207, whole genome shotgun sequence	AMXF01000207	7241	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont208, whole genome shotgun sequence	AMXF01000208	7223	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont209, whole genome shotgun sequence	AMXF01000209	7132	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont210, whole genome shotgun sequence	AMXF01000210	7131	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont211, whole genome shotgun sequence	AMXF01000211	7040	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont212, whole genome shotgun sequence	AMXF01000212	7000	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont213, whole genome shotgun sequence	AMXF01000213	6999	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont214, whole genome shotgun sequence	AMXF01000214	6983	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont215, whole genome shotgun sequence	AMXF01000215	6923	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont216, whole genome shotgun sequence	AMXF01000216	6887	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont217, whole genome shotgun sequence	AMXF01000217	6788	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont218, whole genome shotgun sequence	AMXF01000218	6773	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont219, whole genome shotgun sequence	AMXF01000219	6767	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont220, whole genome shotgun sequence	AMXF01000220	6756	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont221, whole genome shotgun sequence	AMXF01000221	6736	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont222, whole genome shotgun sequence	AMXF01000222	6721	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont223, whole genome shotgun sequence	AMXF01000223	6690	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont224, whole genome shotgun sequence	AMXF01000224	6676	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont225, whole genome shotgun sequence	AMXF01000225	6676	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont226, whole genome shotgun sequence	AMXF01000226	6670	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont227, whole genome shotgun sequence	AMXF01000227	6627	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont228, whole genome shotgun sequence	AMXF01000228	6585	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont229, whole genome shotgun sequence	AMXF01000229	6567	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont230, whole genome shotgun sequence	AMXF01000230	6552	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont231, whole genome shotgun sequence	AMXF01000231	6516	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont232, whole genome shotgun sequence	AMXF01000232	6499	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont233, whole genome shotgun sequence	AMXF01000233	6471	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont234, whole genome shotgun sequence	AMXF01000234	6458	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont235, whole genome shotgun sequence	AMXF01000235	6370	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont236, whole genome shotgun sequence	AMXF01000236	6327	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont237, whole genome shotgun sequence	AMXF01000237	6299	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont238, whole genome shotgun sequence	AMXF01000238	6223	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont239, whole genome shotgun sequence	AMXF01000239	6120	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont240, whole genome shotgun sequence	AMXF01000240	6111	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont241, whole genome shotgun sequence	AMXF01000241	6111	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont242, whole genome shotgun sequence	AMXF01000242	6047	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont243, whole genome shotgun sequence	AMXF01000243	6000	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont244, whole genome shotgun sequence	AMXF01000244	5994	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont245, whole genome shotgun sequence	AMXF01000245	5947	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont246, whole genome shotgun sequence	AMXF01000246	5896	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont247, whole genome shotgun sequence	AMXF01000247	5894	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont248, whole genome shotgun sequence	AMXF01000248	5797	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont249, whole genome shotgun sequence	AMXF01000249	5763	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont250, whole genome shotgun sequence	AMXF01000250	5702	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont251, whole genome shotgun sequence	AMXF01000251	5658	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont252, whole genome shotgun sequence	AMXF01000252	5645	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont253, whole genome shotgun sequence	AMXF01000253	5623	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont254, whole genome shotgun sequence	AMXF01000254	5580	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont255, whole genome shotgun sequence	AMXF01000255	5525	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont256, whole genome shotgun sequence	AMXF01000256	5457	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont257, whole genome shotgun sequence	AMXF01000257	5385	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont258, whole genome shotgun sequence	AMXF01000258	5383	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont259, whole genome shotgun sequence	AMXF01000259	5369	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont260, whole genome shotgun sequence	AMXF01000260	5368	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont261, whole genome shotgun sequence	AMXF01000261	5364	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont262, whole genome shotgun sequence	AMXF01000262	5361	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont263, whole genome shotgun sequence	AMXF01000263	5325	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont264, whole genome shotgun sequence	AMXF01000264	5268	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont265, whole genome shotgun sequence	AMXF01000265	5260	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont266, whole genome shotgun sequence	AMXF01000266	5238	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont267, whole genome shotgun sequence	AMXF01000267	5229	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont268, whole genome shotgun sequence	AMXF01000268	5122	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont269, whole genome shotgun sequence	AMXF01000269	5078	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont270, whole genome shotgun sequence	AMXF01000270	4997	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont271, whole genome shotgun sequence	AMXF01000271	4973	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont272, whole genome shotgun sequence	AMXF01000272	4885	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont273, whole genome shotgun sequence	AMXF01000273	4822	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont274, whole genome shotgun sequence	AMXF01000274	4811	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont275, whole genome shotgun sequence	AMXF01000275	4796	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont276, whole genome shotgun sequence	AMXF01000276	4788	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont277, whole genome shotgun sequence	AMXF01000277	4764	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont278, whole genome shotgun sequence	AMXF01000278	4751	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont279, whole genome shotgun sequence	AMXF01000279	4719	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont280, whole genome shotgun sequence	AMXF01000280	4707	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont281, whole genome shotgun sequence	AMXF01000281	4703	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont282, whole genome shotgun sequence	AMXF01000282	4676	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont283, whole genome shotgun sequence	AMXF01000283	4672	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont284, whole genome shotgun sequence	AMXF01000284	4669	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont285, whole genome shotgun sequence	AMXF01000285	4542	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont286, whole genome shotgun sequence	AMXF01000286	4491	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont287, whole genome shotgun sequence	AMXF01000287	4488	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont288, whole genome shotgun sequence	AMXF01000288	4474	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont289, whole genome shotgun sequence	AMXF01000289	4429	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont290, whole genome shotgun sequence	AMXF01000290	4424	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont291, whole genome shotgun sequence	AMXF01000291	4395	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont292, whole genome shotgun sequence	AMXF01000292	4394	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont293, whole genome shotgun sequence	AMXF01000293	4378	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont294, whole genome shotgun sequence	AMXF01000294	4356	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont295, whole genome shotgun sequence	AMXF01000295	4344	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont296, whole genome shotgun sequence	AMXF01000296	4266	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont297, whole genome shotgun sequence	AMXF01000297	4262	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont298, whole genome shotgun sequence	AMXF01000298	4243	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont299, whole genome shotgun sequence	AMXF01000299	4222	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont300, whole genome shotgun sequence	AMXF01000300	4211	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont301, whole genome shotgun sequence	AMXF01000301	4188	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont302, whole genome shotgun sequence	AMXF01000302	4175	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont303, whole genome shotgun sequence	AMXF01000303	4023	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont304, whole genome shotgun sequence	AMXF01000304	3990	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont305, whole genome shotgun sequence	AMXF01000305	3921	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont306, whole genome shotgun sequence	AMXF01000306	3874	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont307, whole genome shotgun sequence	AMXF01000307	3868	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont308, whole genome shotgun sequence	AMXF01000308	3849	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont309, whole genome shotgun sequence	AMXF01000309	3842	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont310, whole genome shotgun sequence	AMXF01000310	3758	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont311, whole genome shotgun sequence	AMXF01000311	3750	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont312, whole genome shotgun sequence	AMXF01000312	3706	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont313, whole genome shotgun sequence	AMXF01000313	3661	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont314, whole genome shotgun sequence	AMXF01000314	3616	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont315, whole genome shotgun sequence	AMXF01000315	3587	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont316, whole genome shotgun sequence	AMXF01000316	3556	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont317, whole genome shotgun sequence	AMXF01000317	3545	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont318, whole genome shotgun sequence	AMXF01000318	3495	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont319, whole genome shotgun sequence	AMXF01000319	3454	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont320, whole genome shotgun sequence	AMXF01000320	3454	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont321, whole genome shotgun sequence	AMXF01000321	3443	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont322, whole genome shotgun sequence	AMXF01000322	3439	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont323, whole genome shotgun sequence	AMXF01000323	3433	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont324, whole genome shotgun sequence	AMXF01000324	3403	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont325, whole genome shotgun sequence	AMXF01000325	3382	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont326, whole genome shotgun sequence	AMXF01000326	3369	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont327, whole genome shotgun sequence	AMXF01000327	3332	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont328, whole genome shotgun sequence	AMXF01000328	3326	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont329, whole genome shotgun sequence	AMXF01000329	3319	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont330, whole genome shotgun sequence	AMXF01000330	3306	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont331, whole genome shotgun sequence	AMXF01000331	3292	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont332, whole genome shotgun sequence	AMXF01000332	3290	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont333, whole genome shotgun sequence	AMXF01000333	3269	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont334, whole genome shotgun sequence	AMXF01000334	3261	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont335, whole genome shotgun sequence	AMXF01000335	3255	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont336, whole genome shotgun sequence	AMXF01000336	3246	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont337, whole genome shotgun sequence	AMXF01000337	3224	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont338, whole genome shotgun sequence	AMXF01000338	3222	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont339, whole genome shotgun sequence	AMXF01000339	3214	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont340, whole genome shotgun sequence	AMXF01000340	3209	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont341, whole genome shotgun sequence	AMXF01000341	3183	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont342, whole genome shotgun sequence	AMXF01000342	3174	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont343, whole genome shotgun sequence	AMXF01000343	3143	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont344, whole genome shotgun sequence	AMXF01000344	3114	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont345, whole genome shotgun sequence	AMXF01000345	3103	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont346, whole genome shotgun sequence	AMXF01000346	3048	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont347, whole genome shotgun sequence	AMXF01000347	3042	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont348, whole genome shotgun sequence	AMXF01000348	3014	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont349, whole genome shotgun sequence	AMXF01000349	3006	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont350, whole genome shotgun sequence	AMXF01000350	2992	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont351, whole genome shotgun sequence	AMXF01000351	2989	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont352, whole genome shotgun sequence	AMXF01000352	2955	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont353, whole genome shotgun sequence	AMXF01000353	2939	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont354, whole genome shotgun sequence	AMXF01000354	2923	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont355, whole genome shotgun sequence	AMXF01000355	2919	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont356, whole genome shotgun sequence	AMXF01000356	2910	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont357, whole genome shotgun sequence	AMXF01000357	2841	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont358, whole genome shotgun sequence	AMXF01000358	2824	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont359, whole genome shotgun sequence	AMXF01000359	2817	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont360, whole genome shotgun sequence	AMXF01000360	2812	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont361, whole genome shotgun sequence	AMXF01000361	2800	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont362, whole genome shotgun sequence	AMXF01000362	2778	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont363, whole genome shotgun sequence	AMXF01000363	2693	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont364, whole genome shotgun sequence	AMXF01000364	2687	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont365, whole genome shotgun sequence	AMXF01000365	2675	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont366, whole genome shotgun sequence	AMXF01000366	2647	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont367, whole genome shotgun sequence	AMXF01000367	2615	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont368, whole genome shotgun sequence	AMXF01000368	2598	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont369, whole genome shotgun sequence	AMXF01000369	2594	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont370, whole genome shotgun sequence	AMXF01000370	2575	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont371, whole genome shotgun sequence	AMXF01000371	2563	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont372, whole genome shotgun sequence	AMXF01000372	2549	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont373, whole genome shotgun sequence	AMXF01000373	2538	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont374, whole genome shotgun sequence	AMXF01000374	2538	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont375, whole genome shotgun sequence	AMXF01000375	2535	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont376, whole genome shotgun sequence	AMXF01000376	2528	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont377, whole genome shotgun sequence	AMXF01000377	2452	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont378, whole genome shotgun sequence	AMXF01000378	2438	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont379, whole genome shotgun sequence	AMXF01000379	2434	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont380, whole genome shotgun sequence	AMXF01000380	2400	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont381, whole genome shotgun sequence	AMXF01000381	2375	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont382, whole genome shotgun sequence	AMXF01000382	2356	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont383, whole genome shotgun sequence	AMXF01000383	2339	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont384, whole genome shotgun sequence	AMXF01000384	2338	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont385, whole genome shotgun sequence	AMXF01000385	2325	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont386, whole genome shotgun sequence	AMXF01000386	2294	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont387, whole genome shotgun sequence	AMXF01000387	2293	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont388, whole genome shotgun sequence	AMXF01000388	2279	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont389, whole genome shotgun sequence	AMXF01000389	2272	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont390, whole genome shotgun sequence	AMXF01000390	2240	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont391, whole genome shotgun sequence	AMXF01000391	2238	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont392, whole genome shotgun sequence	AMXF01000392	2233	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont393, whole genome shotgun sequence	AMXF01000393	2215	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont394, whole genome shotgun sequence	AMXF01000394	2194	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont395, whole genome shotgun sequence	AMXF01000395	2168	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont396, whole genome shotgun sequence	AMXF01000396	2168	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont397, whole genome shotgun sequence	AMXF01000397	2146	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont398, whole genome shotgun sequence	AMXF01000398	2143	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont399, whole genome shotgun sequence	AMXF01000399	2130	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont400, whole genome shotgun sequence	AMXF01000400	2091	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont401, whole genome shotgun sequence	AMXF01000401	2076	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont402, whole genome shotgun sequence	AMXF01000402	2041	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont403, whole genome shotgun sequence	AMXF01000403	2024	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont404, whole genome shotgun sequence	AMXF01000404	1997	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont405, whole genome shotgun sequence	AMXF01000405	1993	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont406, whole genome shotgun sequence	AMXF01000406	1985	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont407, whole genome shotgun sequence	AMXF01000407	1980	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont408, whole genome shotgun sequence	AMXF01000408	1978	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont409, whole genome shotgun sequence	AMXF01000409	1954	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont410, whole genome shotgun sequence	AMXF01000410	1925	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont411, whole genome shotgun sequence	AMXF01000411	1915	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont412, whole genome shotgun sequence	AMXF01000412	1888	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont413, whole genome shotgun sequence	AMXF01000413	1876	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont414, whole genome shotgun sequence	AMXF01000414	1872	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont415, whole genome shotgun sequence	AMXF01000415	1861	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont416, whole genome shotgun sequence	AMXF01000416	1841	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont417, whole genome shotgun sequence	AMXF01000417	1840	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont418, whole genome shotgun sequence	AMXF01000418	1811	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont419, whole genome shotgun sequence	AMXF01000419	1795	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont420, whole genome shotgun sequence	AMXF01000420	1794	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont421, whole genome shotgun sequence	AMXF01000421	1786	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont422, whole genome shotgun sequence	AMXF01000422	1785	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont423, whole genome shotgun sequence	AMXF01000423	1760	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont424, whole genome shotgun sequence	AMXF01000424	1743	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont425, whole genome shotgun sequence	AMXF01000425	1742	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont426, whole genome shotgun sequence	AMXF01000426	1736	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont427, whole genome shotgun sequence	AMXF01000427	1714	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont428, whole genome shotgun sequence	AMXF01000428	1698	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont429, whole genome shotgun sequence	AMXF01000429	1694	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont430, whole genome shotgun sequence	AMXF01000430	1685	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont431, whole genome shotgun sequence	AMXF01000431	1668	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont432, whole genome shotgun sequence	AMXF01000432	1639	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont433, whole genome shotgun sequence	AMXF01000433	1630	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont434, whole genome shotgun sequence	AMXF01000434	1618	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont435, whole genome shotgun sequence	AMXF01000435	1593	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont436, whole genome shotgun sequence	AMXF01000436	1591	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont437, whole genome shotgun sequence	AMXF01000437	1557	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont438, whole genome shotgun sequence	AMXF01000438	1552	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont439, whole genome shotgun sequence	AMXF01000439	1528	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont440, whole genome shotgun sequence	AMXF01000440	1526	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont441, whole genome shotgun sequence	AMXF01000441	1522	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont442, whole genome shotgun sequence	AMXF01000442	1517	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont443, whole genome shotgun sequence	AMXF01000443	1508	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont444, whole genome shotgun sequence	AMXF01000444	1486	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont445, whole genome shotgun sequence	AMXF01000445	1483	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont446, whole genome shotgun sequence	AMXF01000446	1445	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont447, whole genome shotgun sequence	AMXF01000447	1435	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont448, whole genome shotgun sequence	AMXF01000448	1433	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont449, whole genome shotgun sequence	AMXF01000449	1420	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont450, whole genome shotgun sequence	AMXF01000450	1407	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont451, whole genome shotgun sequence	AMXF01000451	1403	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont452, whole genome shotgun sequence	AMXF01000452	1399	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont453, whole genome shotgun sequence	AMXF01000453	1396	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont454, whole genome shotgun sequence	AMXF01000454	1392	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont455, whole genome shotgun sequence	AMXF01000455	1374	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont456, whole genome shotgun sequence	AMXF01000456	1370	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont457, whole genome shotgun sequence	AMXF01000457	1362	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont458, whole genome shotgun sequence	AMXF01000458	1361	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont459, whole genome shotgun sequence	AMXF01000459	1357	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont460, whole genome shotgun sequence	AMXF01000460	1341	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont461, whole genome shotgun sequence	AMXF01000461	1318	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont462, whole genome shotgun sequence	AMXF01000462	1306	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont463, whole genome shotgun sequence	AMXF01000463	1298	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont464, whole genome shotgun sequence	AMXF01000464	1281	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont465, whole genome shotgun sequence	AMXF01000465	1280	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont466, whole genome shotgun sequence	AMXF01000466	1274	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont467, whole genome shotgun sequence	AMXF01000467	1270	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont468, whole genome shotgun sequence	AMXF01000468	1257	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont469, whole genome shotgun sequence	AMXF01000469	1247	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont470, whole genome shotgun sequence	AMXF01000470	1247	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont471, whole genome shotgun sequence	AMXF01000471	1226	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont472, whole genome shotgun sequence	AMXF01000472	1208	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont473, whole genome shotgun sequence	AMXF01000473	1203	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont474, whole genome shotgun sequence	AMXF01000474	1199	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont475, whole genome shotgun sequence	AMXF01000475	1197	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont476, whole genome shotgun sequence	AMXF01000476	1186	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont477, whole genome shotgun sequence	AMXF01000477	1173	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont478, whole genome shotgun sequence	AMXF01000478	1171	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont479, whole genome shotgun sequence	AMXF01000479	1163	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont480, whole genome shotgun sequence	AMXF01000480	1129	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont481, whole genome shotgun sequence	AMXF01000481	1128	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont482, whole genome shotgun sequence	AMXF01000482	1127	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont483, whole genome shotgun sequence	AMXF01000483	1116	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont484, whole genome shotgun sequence	AMXF01000484	1105	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont485, whole genome shotgun sequence	AMXF01000485	1101	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont486, whole genome shotgun sequence	AMXF01000486	1087	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont487, whole genome shotgun sequence	AMXF01000487	1084	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont488, whole genome shotgun sequence	AMXF01000488	1076	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont489, whole genome shotgun sequence	AMXF01000489	1072	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont490, whole genome shotgun sequence	AMXF01000490	1063	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont491, whole genome shotgun sequence	AMXF01000491	1040	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont492, whole genome shotgun sequence	AMXF01000492	1033	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont493, whole genome shotgun sequence	AMXF01000493	1032	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont494, whole genome shotgun sequence	AMXF01000494	1031	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont495, whole genome shotgun sequence	AMXF01000495	1019	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont496, whole genome shotgun sequence	AMXF01000496	1018	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont497, whole genome shotgun sequence	AMXF01000497	1003	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont498, whole genome shotgun sequence	AMXF01000498	1001	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont499, whole genome shotgun sequence	AMXF01000499	977	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont500, whole genome shotgun sequence	AMXF01000500	975	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont501, whole genome shotgun sequence	AMXF01000501	974	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont502, whole genome shotgun sequence	AMXF01000502	973	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont503, whole genome shotgun sequence	AMXF01000503	970	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont504, whole genome shotgun sequence	AMXF01000504	962	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont505, whole genome shotgun sequence	AMXF01000505	962	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont506, whole genome shotgun sequence	AMXF01000506	960	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont507, whole genome shotgun sequence	AMXF01000507	951	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont508, whole genome shotgun sequence	AMXF01000508	939	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont509, whole genome shotgun sequence	AMXF01000509	935	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont510, whole genome shotgun sequence	AMXF01000510	927	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont511, whole genome shotgun sequence	AMXF01000511	921	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont512, whole genome shotgun sequence	AMXF01000512	919	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont513, whole genome shotgun sequence	AMXF01000513	916	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont514, whole genome shotgun sequence	AMXF01000514	915	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont515, whole genome shotgun sequence	AMXF01000515	910	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont516, whole genome shotgun sequence	AMXF01000516	908	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont517, whole genome shotgun sequence	AMXF01000517	903	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont518, whole genome shotgun sequence	AMXF01000518	893	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont519, whole genome shotgun sequence	AMXF01000519	886	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont520, whole genome shotgun sequence	AMXF01000520	885	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont521, whole genome shotgun sequence	AMXF01000521	883	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont522, whole genome shotgun sequence	AMXF01000522	874	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont523, whole genome shotgun sequence	AMXF01000523	870	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont524, whole genome shotgun sequence	AMXF01000524	867	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont525, whole genome shotgun sequence	AMXF01000525	865	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont526, whole genome shotgun sequence	AMXF01000526	856	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont527, whole genome shotgun sequence	AMXF01000527	843	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont528, whole genome shotgun sequence	AMXF01000528	839	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont529, whole genome shotgun sequence	AMXF01000529	826	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont530, whole genome shotgun sequence	AMXF01000530	822	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont531, whole genome shotgun sequence	AMXF01000531	819	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont532, whole genome shotgun sequence	AMXF01000532	819	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont533, whole genome shotgun sequence	AMXF01000533	817	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont534, whole genome shotgun sequence	AMXF01000534	817	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont535, whole genome shotgun sequence	AMXF01000535	813	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont536, whole genome shotgun sequence	AMXF01000536	811	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont537, whole genome shotgun sequence	AMXF01000537	809	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont538, whole genome shotgun sequence	AMXF01000538	808	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont539, whole genome shotgun sequence	AMXF01000539	804	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont540, whole genome shotgun sequence	AMXF01000540	799	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont541, whole genome shotgun sequence	AMXF01000541	795	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont542, whole genome shotgun sequence	AMXF01000542	781	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont543, whole genome shotgun sequence	AMXF01000543	774	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont544, whole genome shotgun sequence	AMXF01000544	773	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont545, whole genome shotgun sequence	AMXF01000545	773	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont546, whole genome shotgun sequence	AMXF01000546	769	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont547, whole genome shotgun sequence	AMXF01000547	753	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont548, whole genome shotgun sequence	AMXF01000548	746	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont549, whole genome shotgun sequence	AMXF01000549	744	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont550, whole genome shotgun sequence	AMXF01000550	742	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont551, whole genome shotgun sequence	AMXF01000551	735	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont552, whole genome shotgun sequence	AMXF01000552	731	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont553, whole genome shotgun sequence	AMXF01000553	730	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont554, whole genome shotgun sequence	AMXF01000554	720	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont555, whole genome shotgun sequence	AMXF01000555	700	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont556, whole genome shotgun sequence	AMXF01000556	697	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont557, whole genome shotgun sequence	AMXF01000557	694	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont558, whole genome shotgun sequence	AMXF01000558	690	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont559, whole genome shotgun sequence	AMXF01000559	683	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont560, whole genome shotgun sequence	AMXF01000560	678	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont561, whole genome shotgun sequence	AMXF01000561	671	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont562, whole genome shotgun sequence	AMXF01000562	641	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont563, whole genome shotgun sequence	AMXF01000563	640	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont564, whole genome shotgun sequence	AMXF01000564	637	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont565, whole genome shotgun sequence	AMXF01000565	636	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont566, whole genome shotgun sequence	AMXF01000566	631	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont567, whole genome shotgun sequence	AMXF01000567	627	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont568, whole genome shotgun sequence	AMXF01000568	621	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont569, whole genome shotgun sequence	AMXF01000569	617	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont570, whole genome shotgun sequence	AMXF01000570	604	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont571, whole genome shotgun sequence	AMXF01000571	604	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont572, whole genome shotgun sequence	AMXF01000572	593	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont573, whole genome shotgun sequence	AMXF01000573	586	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont574, whole genome shotgun sequence	AMXF01000574	582	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont575, whole genome shotgun sequence	AMXF01000575	580	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont576, whole genome shotgun sequence	AMXF01000576	569	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont577, whole genome shotgun sequence	AMXF01000577	564	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont578, whole genome shotgun sequence	AMXF01000578	561	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont579, whole genome shotgun sequence	AMXF01000579	555	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont580, whole genome shotgun sequence	AMXF01000580	550	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont581, whole genome shotgun sequence	AMXF01000581	548	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont582, whole genome shotgun sequence	AMXF01000582	547	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont583, whole genome shotgun sequence	AMXF01000583	537	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont584, whole genome shotgun sequence	AMXF01000584	534	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont585, whole genome shotgun sequence	AMXF01000585	528	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont586, whole genome shotgun sequence	AMXF01000586	528	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont587, whole genome shotgun sequence	AMXF01000587	528	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont588, whole genome shotgun sequence	AMXF01000588	527	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont589, whole genome shotgun sequence	AMXF01000589	526	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont590, whole genome shotgun sequence	AMXF01000590	520	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont591, whole genome shotgun sequence	AMXF01000591	518	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont592, whole genome shotgun sequence	AMXF01000592	518	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont593, whole genome shotgun sequence	AMXF01000593	517	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont594, whole genome shotgun sequence	AMXF01000594	512	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont595, whole genome shotgun sequence	AMXF01000595	510	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont596, whole genome shotgun sequence	AMXF01000596	507	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont597, whole genome shotgun sequence	AMXF01000597	500	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont598, whole genome shotgun sequence	AMXF01000598	493	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont599, whole genome shotgun sequence	AMXF01000599	480	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont600, whole genome shotgun sequence	AMXF01000600	479	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont601, whole genome shotgun sequence	AMXF01000601	478	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont602, whole genome shotgun sequence	AMXF01000602	477	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont603, whole genome shotgun sequence	AMXF01000603	474	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont604, whole genome shotgun sequence	AMXF01000604	473	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont605, whole genome shotgun sequence	AMXF01000605	472	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont606, whole genome shotgun sequence	AMXF01000606	469	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont607, whole genome shotgun sequence	AMXF01000607	459	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont608, whole genome shotgun sequence	AMXF01000608	446	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont609, whole genome shotgun sequence	AMXF01000609	445	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont610, whole genome shotgun sequence	AMXF01000610	437	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont611, whole genome shotgun sequence	AMXF01000611	435	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont612, whole genome shotgun sequence	AMXF01000612	432	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont613, whole genome shotgun sequence	AMXF01000613	431	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont614, whole genome shotgun sequence	AMXF01000614	430	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont615, whole genome shotgun sequence	AMXF01000615	421	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont616, whole genome shotgun sequence	AMXF01000616	420	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont617, whole genome shotgun sequence	AMXF01000617	414	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont618, whole genome shotgun sequence	AMXF01000618	411	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont619, whole genome shotgun sequence	AMXF01000619	408	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont620, whole genome shotgun sequence	AMXF01000620	403	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont621, whole genome shotgun sequence	AMXF01000621	403	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont622, whole genome shotgun sequence	AMXF01000622	401	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont623, whole genome shotgun sequence	AMXF01000623	394	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont624, whole genome shotgun sequence	AMXF01000624	394	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont625, whole genome shotgun sequence	AMXF01000625	391	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont626, whole genome shotgun sequence	AMXF01000626	387	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont627, whole genome shotgun sequence	AMXF01000627	386	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont628, whole genome shotgun sequence	AMXF01000628	384	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont629, whole genome shotgun sequence	AMXF01000629	383	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont630, whole genome shotgun sequence	AMXF01000630	380	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont631, whole genome shotgun sequence	AMXF01000631	379	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont632, whole genome shotgun sequence	AMXF01000632	376	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont633, whole genome shotgun sequence	AMXF01000633	369	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont634, whole genome shotgun sequence	AMXF01000634	364	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont635, whole genome shotgun sequence	AMXF01000635	363	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont636, whole genome shotgun sequence	AMXF01000636	362	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont637, whole genome shotgun sequence	AMXF01000637	355	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont638, whole genome shotgun sequence	AMXF01000638	352	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont639, whole genome shotgun sequence	AMXF01000639	352	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont640, whole genome shotgun sequence	AMXF01000640	351	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont641, whole genome shotgun sequence	AMXF01000641	336	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont642, whole genome shotgun sequence	AMXF01000642	336	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont643, whole genome shotgun sequence	AMXF01000643	328	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont644, whole genome shotgun sequence	AMXF01000644	323	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont645, whole genome shotgun sequence	AMXF01000645	311	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont646, whole genome shotgun sequence	AMXF01000646	305	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont647, whole genome shotgun sequence	AMXF01000647	304	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont648, whole genome shotgun sequence	AMXF01000648	298	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont649, whole genome shotgun sequence	AMXF01000649	293	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont650, whole genome shotgun sequence	AMXF01000650	293	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont651, whole genome shotgun sequence	AMXF01000651	285	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont652, whole genome shotgun sequence	AMXF01000652	273	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont653, whole genome shotgun sequence	AMXF01000653	264	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont654, whole genome shotgun sequence	AMXF01000654	262	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont655, whole genome shotgun sequence	AMXF01000655	252	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont656, whole genome shotgun sequence	AMXF01000656	251	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont657, whole genome shotgun sequence	AMXF01000657	251	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont658, whole genome shotgun sequence	AMXF01000658	248	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont659, whole genome shotgun sequence	AMXF01000659	237	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont660, whole genome shotgun sequence	AMXF01000660	233	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont661, whole genome shotgun sequence	AMXF01000661	229	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont662, whole genome shotgun sequence	AMXF01000662	229	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont663, whole genome shotgun sequence	AMXF01000663	225	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont664, whole genome shotgun sequence	AMXF01000664	223	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont665, whole genome shotgun sequence	AMXF01000665	218	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont666, whole genome shotgun sequence	AMXF01000666	217	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont667, whole genome shotgun sequence	AMXF01000667	209	1234382	*



Thauera phenylacetica

Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont668, whole genome shotgun sequence	AMXF01000668	208	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont669, whole genome shotgun sequence	AMXF01000669	206	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont670, whole genome shotgun sequence	AMXF01000670	205	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont671, whole genome shotgun sequence	AMXF01000671	205	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont672, whole genome shotgun sequence	AMXF01000672	205	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont673, whole genome shotgun sequence	AMXF01000673	205	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont674, whole genome shotgun sequence	AMXF01000674	205	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont675, whole genome shotgun sequence	AMXF01000675	204	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont676, whole genome shotgun sequence	AMXF01000676	202	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont677, whole genome shotgun sequence	AMXF01000677	202	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont678, whole genome shotgun sequence	AMXF01000678	202	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont679, whole genome shotgun sequence	AMXF01000679	202	1234382	*



Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont680, whole genome shotgun sequence	AMXF01000680	200	1234382	*
Ref.: 20218	Whole Genome Shotgun (WGS) Sequence INSDC	Thauera phenylacetica B4P Cont681, whole genome shotgun sequence	AMXF01000681	200	1234382	*

Strain availability

[Ref.: 5438](#) **Culture collection no.** DSM 14743, LMG 26918

[Ref.: 5438](#) **Strain history** <- G. Fuchs; B4P

Associated Passport(s) in StrainInfo

[Ref.: 20218](#) 278358 - <http://www.straininfo.net/strains/278358>

[Ref.: 20218](#) 869690 - <http://www.straininfo.net/strains/869690>

References

[Ref.: 5438](#) Leibniz Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH; Curators of the DSMZ; DSM 14743

[Ref.: 20215](#) D.Gleim, M.Kracht, N.Weiss et. al.: Prokaryotic Nomenclature Up-to-date - compilation of all names of Bacteria and Archaea, validly published according to the Bacteriological Code since 1. Jan. 1980, and validly published nomenclatural changes since.

[Ref.: 20218](#) Verslyppe, B., De Smet, W., De Baets, B., De Vos, P., Dawyndt P. StrainInfo introduces electronic passports for microorganisms.. Syst Appl Microbiol. 37: 42-50 2014 (10.1016/j.syapm.2013.11.002, 24321274)

[Ref.: 32701](#) None; Curators of the CIP; None

*** These References are textmined**

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