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# BLAST ® » blastp suite » results for RID-UWS0FG8P013

Job Title Protein Sequence ...

UWS0FG8P013 Search expires on 01-23 19:31 pm RID

BLASTP Program

Database

Query ID lcl|Query\_6700805 Description unnamed protein product ...

Molecule type amino acid 34 **Query Length** 

Compare these results against the new Clustered nr database BLAST

×

# **Descriptions**

,, 0	Description	Scientific	Max	Total	Query	E	Per.	Acc.	Accession
	▼	Name ▼	Score •	Score	Cover	value ▼	ldent ▼	Len ▼	
	citrate/2-methylcitrate synthase [Klebsiella michiganensis]	Klebsiella michiganensis	76.6	76.6	100%	3e-16	97.06%	142	MDU4389148.1
	TPA: citrate (Si)-synthase [Klebsiella oxytoca]	Klebsiella oxytoca	75.9	75.9	100%	4e-16	97.06%	121	HEC2128142.1
	citrate/2-methylcitrate synthase [Klebsiella aerogenes]	Klebsiella	76.6	76.6	100%	5e-16	97.06%	159	WP_323129656.1
	citrate/2-methylcitrate synthase [Escherichia coli]	aerogenes Escherichia coli	74.3	74.3	100%	9e-16	100.00%	96	MDY3720482.1
	citrate/2-methylcitrate synthase [Klebsiella	Klebsiella	73.6	73.6	100%	9e-16	100.00%	76	WP_309301862.1
	pneumoniae] citrate (Si)-synthase [Escherichia coli]	pneumoniae Escherichia coli	74.3	74.3	100%	9e-16	100.00%	100	EIF4801338.1
		Klebsiella		73.9	100%	9e-16	100.00%		
	citrate (Si)-synthase [Klebsiella pneumoniae]	pneumoniae	73.9					78	MCL7660528.1
	citrate/2-methylcitrate synthase [Escherichia coli]  TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli Escherichia coli	73.9 73.9	73.9 73.9	100% 100%	9e-16 1e-15	100.00% 100.00%	86 84	WP_283571878.1 HBI9786764.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	94	MWR90423.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.9	73.9	100%	1e-15	100.00%	84	WP_286205966.1
	<u>citrate (Si)-synthase [Enterobacteriaceae bacterium TzEc052]</u>	Enterobacteriaceae bacterium TzEc052	73.9	73.9	100%	1e-15	100.00%	86	KAE9897545.1
	citrate (Si)-synthase [Salmonella enterica]	Salmonella enterica	75.5	75.5	100%	1e-15	94.12%	142	EAZ0641620.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	73.9	73.9	100%	1e-15	100.00%	83	MBA1933872.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	1e-15	100.00%	108	MSI35684.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	100	WP_322098633.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.9	73.9	100%	1e-15	100.00%	87	WP_302306452.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	95	WP_283570149.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	73.9	73.9	100%	1e-15	100.00%	83	MDN1366952.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	108	MBS8847612.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	73.6	73.6	100%	1e-15	100.00%	81	MBS8919746.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	101	WP_275511187.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	73.6	73.6	100%	1e-15	100.00%	78	MC00173501.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	1e-15	100.00%	121	WP_284147049.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.6	73.6	100%	1e-15	100.00%	75	WP_284737001.1
	TPA: citrate (Si)-synthase [Escherichia coli] citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli Escherichia coli	74.3 73.9	74.3 73.9	100% 100%	1e-15 1e-15	100.00% 100.00%	105 94	HBD5505378.1 WP_272732384.1
	Citiate/2-methylcitiate synthase (Eschendina con)	Salmonella	73.9	73.9	100%	16-13	100.00%	3 <del>4</del>	WF_272732304.1
	citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Typhimurium]	enterica subsp. enterica serovar Typhimurium	75.1	75.1	100%	1e-15	94.12%	138	MBZ4878239.1
	citrate synthase family protein [Escherichia coli 3-105-05_S3_C2]	Escherichia coli 3- 105-05_S3_C2	74.3	74.3	100%	1e-15	100.00%	109	KDT38988.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.6	73.6	100%	1e-15	100.00%	75	WP_284737003.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	110	EGJ6209831.1
	TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	73.2	73.2	100%	1e-15	100.00%	72	HCN8565948.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.6	73.6	100%	1e-15	100.00%	86	WP_272881025.1
	citrate (Si)-synthase [Escherichia coli O145:H28]	Escherichia coli 0145:H28	73.9	73.9	100%	1e-15	100.00%	98	EJH5202848.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.2	73.2	100%	1e-15	100.00%	71	WP_284696415.1
	citrate (Si)-synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	74.7	74.7	100%	1e-15	100.00%	116	TNA27598.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	114	WP_032236753.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.6	73.6	100%	1e-15	100.00%	77	WP_289709520.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	1e-15	100.00%	116	MBI0909235.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	73.2	73.2	100%	1e-15	100.00%	70	MDM1725847.1
	citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Typhimurium]	Salmonella enterica subsp. enterica serovar Typhimurium	75.1	75.1	100%	1e-15	94.12%	135	EHR9564451.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.2	73.2	100%	1e-15	100.00%	67	WP_284693070.1
	citrate (Si)-synthase [Salmonella enterica]	Salmonella enterica	75.1	75.1	100%	1e-15	94.12%	137	EAM9290843.1
	TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	72.8	72.8	100%	2e-15	100.00%	66	HCN7185207.1
	citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	118	MDU7304414.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	114	PZT65910.1
	<u>citrate/2-methylcitrate synthase [Klebsiella pneumoniae]</u>	Klebsiella pneumoniae	72.8	72.8	100%	2e-15	100.00%	64	WP_301952173.1
	citrate/2-methylcitrate synthase [uncultured Enterobacter sp.]	uncultured Enterobacter sp.	74.3	74.3	100%	2e-15	94.12%	121	WP_288462100.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	72.8	72.8	100%	2e-15	100.00%	70	MDM1725853.1
	citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	2e-15	100.00%	138	MCA8592376.1
	TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	2e-15	100.00%	138	HDS4039354.1
	citrate (Si)-synthase [Pseudomonas aeruginosa]	Pseudomonas aeruginosa	73.6	73.6	100%	2e-15	97.06%	95	MBN0903844.1
	citrate (Si)-synthase [Bacteroides heparinolyticus]	Bacteroides heparinolyticus	72.4	72.4	100%	2e-15	100.00%	64	MCF0257894.1

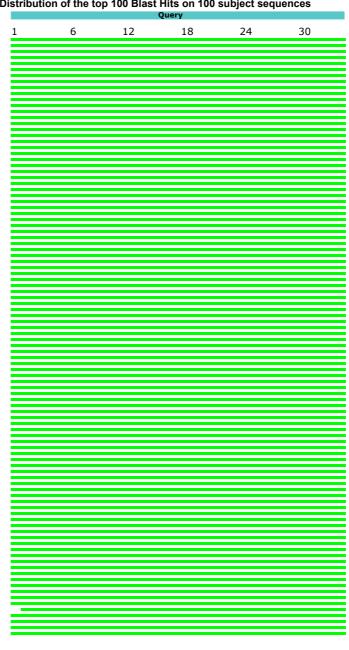
0112024, 13.44			TTCDI Diast.	rotem seque	nee			
Description  ▼	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
	▼	▼	•	•	•	•	•	
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	132	WP_077779533.1
TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	130	HDQ5165782.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	132	WP_289508712.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	130	WP_074522594.1
citrate synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	126	GDS03942.1
citrate/2-methylcitrate synthase [Vibrio sp. FNV 38]	Vibrio sp. FNV 38	74.7	74.7	100%	2e-15	100.00%	138	MDR9824555.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.3	74.3	100%	2e-15	100.00%	129	MBK1748728.1
citrate synthase domain protein [Escherichia coli DEC5E]	Escherichia coli DEC5E	74.3	74.3	100%	2e-15	100.00%	126	EHV50680.1
citrate (Si)-synthase [Lutimaribacter sp. EGI FJ00015]	<u>Lutimaribacter sp.</u> <u>EGI FJ00015</u>	74.7	74.7	100%	2e-15	100.00%	144	MC00615641.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	2e-15	100.00%	146	RIB41964.1
citrate synthase [Escherichia coli UCI 51]	Escherichia coli UCI 51	74.7	74.7	100%	3e-15	100.00%	153	KDG76081.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	3e-15	100.00%	154	WP_324251799.1
citrate (Si)-synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	72.8	72.8	100%	3e-15	97.06%	81	PIN64336.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	3e-15	100.00%	157	EEZ0587125.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	3e-15	100.00%	151	WP_074466000.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	73.2	73.2	100%	3e-15	97.06%	94	WP_324251827.1
citrate/2-methylcitrate synthase [Klebsiella michiganensis]	Klebsiella michiganensis	72.4	72.4	100%	3e-15	97.06%	77	WP_308298152.1
citrate synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	3e-15	100.00%	155	STL43725.1
citrate (Si)-synthase [Pseudomonas aeruginosa]	Pseudomonas aeruginosa	73.2	73.2	100%	3e-15	97.06%	99	MBN0423480.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	3e-15	100.00%	153	EEY6517482.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	72.0	72.0	100%	3e-15	97.06%	58	MDU2996401.1
citrate/2-methylcitrate synthase [Pluralibacter sp.]	Pluralibacter sp.	73.2	73.2	100%	3e-15	97.06%	108	WP_293592788.1
hypothetical protein K26_27600 [Klebsiella pneumoniae]	Klebsiella pneumoniae	72.0	72.0	100%	3e-15	97.06%	63	KTG66061.1
citrate/2-methylcitrate synthase [Klebsiella quasipneumoniae]	Klebsiella guasipneumoniae	73.2	73.2	100%	3e-15	97.06%	108	WP_284025715.1
TPA: citrate (Si)-synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	73.2	73.2	100%	3e-15	97.06%	105	HBY5377556.1
citrate (Si)-synthase [Myxococcus sp. AM001]	Myxococcus sp. AM001	72.8	72.8	100%	3e-15	97.06%	89	NVJ12137.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	73.2	73.2	100%	3e-15	97.06%	112	WP_319792845.1
Citrate synthase (si) [Klebsiella pneumoniae]	Klebsiella pneumoniae	73.2	73.2	100%	3e-15	97.06%	109	VTM53379.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	74.7	74.7	100%	3e-15	100.00%	164	MSH86413.1
Citrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	73.2	73.2	100%	4e-15	97.06%	110	VXZ87087.1
	Klebsiella							
Citrate synthase (si) [Klebsiella pneumoniae subsp. rhinoscleromatis]	pneumoniae subsp. rhinoscleromatis	73.6	73.6	100%	4e-15	97.06%	121	STW02890.1
citrate/2-methylcitrate synthase [Shewanella	Shewanella	74.7	74.7	100%	4e-15	100.00%	165	WP 279255920.1
xiamenensis]	<u>xiamenensis</u> Klebsiella	74.7	74.7	100%	46-15	100.00%	100	WP_2/9255920.1
Citrate synthase (si) [Klebsiella pneumoniae subsp. ozaenae]	pneumoniae subsp. ozaenae	73.6	73.6	100%	4e-15	97.06%	121	STV52690.1
citrate/2-methylcitrate synthase [Citrobacter sp.]	<u>Citrobacter sp.</u>	73.6	73.6	100%	4e-15	97.06%	122	MDU1753658.1
citrate (Si)-synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	73.2	73.2	100%	5e-15	97.06%	124	PLB95647.1
Citrate synthase (si) [Klebsiella variicola]	Klebsiella variicola	73.2	73.2	100%	5e-15	97.06%	126	STU80410.1
citrate/2-methylcitrate synthase [uncultured Citrobacter sp.]	uncultured Citrobacter sp.	72.4	72.4	100%	5e-15	94.12%	100	WP_288627250.1
Citrate synthase (si) [Klebsiella michiganensis]	Klebsiella michiganensis	73.6	73.6	100%	5e-15	97.06%	138	STR40740.1
hypothetical protein K16_05185 [Klebsiella	Klebsiella	71.6	71.6	100%	5e-15	97.06%	74	KTG78194.1
pneumoniae] citrate/2-methylcitrate synthase [Klebsiella	<u>pneumoniae</u> <u>Klebsiella</u>							
pneumoniae]	pneumoniae	73.6	73.6	100%	5e-15	97.06%	142	WP_319951103.1
TPA: citrate (Si)-synthase [Salmonella enterica subspenterica serovar Infantis]	Salmonella enterica subsp. enterica serovar Infantis	71.6	71.6	100%	6e-15	94.12%	76	HCI9980600.1
citrate/2-methylcitrate synthase [Salmonella enterica	Salmonella enterica	71.6	71.6	100%	6e-15	94.12%	73	WP_290367269.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	71.2	71.2	97%	6e-15	100.00%	55	WP_302314285.1
hypothetical protein EIMP300_69540 [Escherichia col		73.9	73.9	100%	6e-15	100.00%	163	BBU85554.1
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Enteritidis]	Salmonella enterica subsp. enterica serovar Enteritidis	72.0	72.0	100%	6e-15	94.12%	81	EDA8932280.1

Description ▼	Scientific Name	Max Score	Total Score ▼	Query Cover	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
citrate/2-methylcitrate synthase [Salmonella enterica]	<u>Salmonella</u> <u>enterica</u>	72.0	72.0	100%	6e-15	94.12%	86	WP_315942705.1
citrate synthase [Salmonella enterica subsp. enterica] [Salmonella enterica subsp. enterica serovar Menston]	Salmonella enterica subsp. enterica serovar Menston	72.4	72.4	100%	6e-15	94.12%	102	<u>SQJ25585.1</u>

### **Graphic Summary**







### **Alignments**

Alignment view Pairwise ✓ □ CDS feature Restore defaults

citrate/2-methylcitrate synthase [Klebsiella michiganensis]

Sequence ID: MDU4389148.1 Length: 142 Number of Matches: 1 Range 1: 87 to 120

Score		Expect Method	Identities	Positives	Gaps	Frame
76.6 bits	s(187)	3e-16() Composition-based stats.	33/34(97%)	34/34(100%)	0/34(0%)	
Query	1	AMGIPSSMFTVIFAMARTVGWIAHWSI AMGIPSSMFTVIFAMARTVGWIAHW+I		4		
Sbjct	87	AMGIPSSMFTVIFAMARTVGWIAHWNI		20		

citrate (Si)-synthase [Klebsiella oxytoca]

Sequence ID: HEC2128142.1 Length: 121 Number of Matches: 1

Range 1: 66 to 99

Score		Expect	Method	Identitie	s	Positives	Gaps	Frame
75.9 bits	(185)	4e-16()	Composition-based stats.	33/34(9	7%)	34/34(100%)	0/34(0%)	
Query	1		MFTVIFAMARTVGWIAHWSEN		34			
Sbjct	66		MFTVIFAMARTVGWIAHWNEN		99			

citrate/2-methylcitrate synthase, partial [Klebsiella aerogenes]

Sequence ID: WP\_323129656.1 Length: 159 Number of Matches: 1

Range 1: 104 to 137

Score		Expect Method	Identities	Positives	Gaps	Frame
76.6 bits(187)		5e-16() Composition-based stats.	33/34(97%)	34/34(100%)	0/34(0%)	
Query	1	AMGIPSSMFTVIFAMARTVGWIAHWSE AMGIPSSMFTVIFAMARTVGWIAHW+E		4		
Sbict	104	AMGIPSSMFTVIFAMARTVGWIAHWNE		37		

citrate/2-methylcitrate synthase [Escherichia coli]

Sequence ID: MDY3720482.1 Length: 96 Number of Matches: 1 Range 1: 41 to 74

Score			Expect	Method		Identitie	s	Positives	Gaps	Frame
	74.3 bits	(181)	9e-16()	Compositional r	matrix adjust.	34/34(1	00%)	34/34(100%)	0/34(0%)	
	Query	1		SMFTVIFAMART SMFTVIFAMART			34			
	Sbict	41		SMFTVIFAMART			74			

citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]

Sequence ID: WP\_309301862.1 Length: 76 Number of Matches: 1

Range 1: 20 to 53

Score 73.6 bits(179)			Expect Method	Identities	Positives	Gaps	Frame	
	73.6 bits	(179)	9e-16() Compositional matrix adjust.	34/34(100	%) 34/34(100%)	0/34(0%)		
	Query	1	AMGIPSSMFTVIFAMARTVGWIAHWSEM AMGIPSSMFTVIFAMARTVGWIAHWSEM		1			
	Sbict	20	AMGIPSSMFTVIFAMARTVGWIAHWSEM		3			

citrate (Si)-synthase [Escherichia coli]

Sequence ID: EIF4801338.1 Length: 100 Number of Matches: 1

Range 1: 45 to 78

Score		Expect Method	Identit	es	Positives	Gaps	Frame
74.3 bits	s(181)	9e-16() Compositional matrix a	djust. 34/34(	100%)	34/34(100%)	0/34(0%)	
Query	1	AMGIPSSMFTVIFAMARTVGWIAH AMGIPSSMFTVIFAMARTVGWIAH		34			
Sbjct	45	AMGIPSSMFTVIFAMARTVGWIAF		78			

citrate (Si)-synthase [Klebsiella pneumoniae]

Sequence ID: MCL7660528.1 Length: 78 Number of Matches: 1

Range 1: 36 to 69

Score		Expect	Method	Identiti	es	Positives	Gaps	Frame
73.9 bits	s(180)	9e-16()	Compositional matrix adjust	34/34(	100%)	34/34(100%)	0/34(0%)	
Query	1		SMFTVIFAMARTVGWIAHWSE SMFTVIFAMARTVGWIAHWSE		34			
Sbjct	36		SMFTVIFAMARTVGWIAHWSEI SMFTVIFAMARTVGWIAHWSEI		69			

citrate/2-methylcitrate synthase, partial [Escherichia coli]

Sequence ID: WP\_283571878.1 Length: 86 Number of Matches: 1

Range 1: 31 to 64

Score		Expect	Method		Identitie	es	Positives	Gaps	Frame
73.9 bits	s(180)	9e-16()	Compositional	matrix adjust.	34/34(1	00%)	34/34(100%)	0/34(0%)	
Query	1		SMFTVIFAMART SMFTVIFAMART			34			
Sbjct	31		SMFTVIFAMART			64			

citrate (Si)-synthase [Escherichia coli]

Sequence ID: HBI9786764.1 Length: 84 Number of Matches: 1

Range 1: 29 to 62

Score	Expect Method	Identities	Positives	Gaps	Frame
73.9 bits(180)	1e-15() Compositional matrix adjust.	34/34(100%)	34/34(100%)	0/34(0%)	

Query 1 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK 3-AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK 65

citrate (Si)-synthase [Escherichia coli]

Sequence ID: MWR90423.1 Length: 94 Number of Matches: 1

Range 1: 39 to 72

 Score
 Expect
 Method
 Identities
 Positives
 Gaps
 Frame

 74.3 bits(181)
 1e-15()
 Compositional matrix adjust.
 34/34(100%)
 34/34(100%)
 0/34(0%)

 Query
 1
 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFT AMGIPS

citrate/2-methylcitrate synthase, partial [Escherichia coli]

Sequence ID: WP\_286205966.1 Length: 84 Number of Matches: 1

Range 1: 29 to 62

 Score
 Expect
 Method
 Identities
 Positives
 Gaps
 Frame

 73.9 bits(180)
 1e-15()
 Compositional matrix adjust.
 34/34(100%)
 34/34(100%)
 0/34(0%)

 Query
 1
 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK
 34

 Sbjct
 29
 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK
 62

citrate (Si)-synthase, partial [Enterobacteriaceae bacterium TzEc052]

Sequence ID: KAE9897545.1 Length: 86 Number of Matches: 1

Range 1: 31 to 64

ScoreExpectMethodIdentitiesPositivesGapsFrame73.9 bits(180)1e-15()Compositional matrix adjust.34/34(100%)34/34(100%)0/34(0%)Query1AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK 6434

citrate (Si)-synthase [Salmonella enterica]

Sequence ID: EAZ0641620.1 Length: 142 Number of Matches: 1

Range 1: 87 to 120

 Score
 Expect
 Method
 Identities
 Positives
 Gaps
 Frame

 75.5 bits(184)
 1e-15()
 Composition-based stats.
 32/34(94%)
 34/34(100%)
 0/34(0%)

 Query
 1
 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFTVIFAMARTVGWIAHWNEMHTDGMK
 34

 Sbjct
 87
 AMGIPSSMFTVIFAMARTVGWIAHWNEMHTDGMK
 120

citrate (Si)-synthase [Escherichia coli]

Sequence ID: MBA1933872.1 Length: 83 Number of Matches: 1

Range 1: 28 to 61

ScoreExpectMethodIdentitiesPositivesGapsFrame73.9 bits(180)1e-15()Compositional matrix adjust.34/34(100%)34/34(100%)0/34(0%)Query1AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK Sbjct34Sbjct28AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AG61

citrate (Si)-synthase [Escherichia coli]

Sequence ID: MSI35684.1 Length: 108 Number of Matches: 1

Range 1: 53 to 86

 Score
 Expect
 Method
 Identities
 Positives
 Gaps
 Frame

 74.7 bits(182)
 1e-15()
 Compositional matrix adjust.
 34/34(100%)
 34/34(100%)
 0/34(0%)

 Query
 1
 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK
 34

 Sbjct
 53
 AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK
 86

citrate/2-methylcitrate synthase, partial [Escherichia coli]

Sequence ID: WP\_322098633.1 Length: 100 Number of Matches: 1

Range 1: 45 to 78

ScoreExpectMethodIdentitiesPositivesGapsFrame74.3 bits(181)1e-15()Compositional matrix adjust.34/34(100%)34/34(100%)0/34(0%)Query1AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK SDMK SDMK AMGIPSSMFTVIFAMARTVGWIAHWSEMHSDGMK AMGIPSSMFTVIFAMARTVGWI

citrate/2-methylcitrate synthase, partial [Escherichia coli]

Sequence ID: **WP\_302306452.1** Length: 87 Number of Matches: 1 Range 1: 32 to 65

Score		Expect Method	d	Identitie	es	Positives	Gaps	Frame
73.9 bits	s(180)	1e-15() Compo	ositional matrix adjust.	34/34(1	100%)	34/34(100%)	0/34(0%)	
Query	1		FAMARTVGWIAHWSEN		34			
Sbjct	32		LFAMARTVGWIAHWSEM LFAMARTVGWIAHWSEM		65			

citrate/2-methylcitrate synthase, partial [Escherichia coli]

Sequence ID: **WP\_283570149.1** Length: 95 Number of Matches: 1 Range 1: 40 to 73

Score		Expect	Method		Identitie	s	Positives	Gaps	Frame
74.3 bits	(181)	1e-15()	Compositional matrix	x adjust.	34/34(1	00%)	34/34(100%)	0/34(0%)	
Query	1		SMFTVIFAMARTVGWI SMFTVIFAMARTVGWI			34			
Sbjct	40		SMFTVIFAMARTVGWI			73			

citrate (Si)-synthase [Escherichia coli]

Sequence ID: MDN1366952.1 Length: 83 Number of Matches: 1

	Score		Expect	Method		Identitie	s	Positives	Gaps	Frame
	73.9 bits	(180)	1e-15()	Compositional matrix	adjust.	34/34(1	00%)	34/34(100%)	0/34(0%)	
(	Query	1		SMFTVIFAMARTVGWI SMFTVIFAMARTVGWI			34			
	Sbjct	28		SMFTVIFAMARTVGWI			61			

citrate (Si)-synthase [Escherichia coli]

Sequence ID: MBS8847612.1 Length: 108 Number of Matches: 1 Range 1: 53 to 86

Score		Expect	Method	Identiti	es	Positives	Gaps	Frame
74.3 bits	s(181)	1e-15()	Compositional matrix adjust.	34/34(	100%)	34/34(100%)	0/34(0%)	
Query	1		SMFTVIFAMARTVGWIAHWSEM SMFTVIFAMARTVGWIAHWSEM		34			
Sbjct	53		SMFTVIFAMARTVGWIAHWSEM SMFTVIFAMARTVGWIAHWSEM		86			

# Taxonomy

## Reports

### Lineage

Organism	Blast Name	Score	Number of Hits	Description
Bacteria	<u>bacteria</u>		143	
. <u>Pseudomonadota</u>	proteobacteria		<u>141</u>	
Gammaproteobacteria	g-proteobacteria		<u>140</u>	
<u>Enterobacteriaceae</u>	enterobacteria		<u>135</u>	
<u>Klebsiella</u>	enterobacteria		<u>28</u>	
Klebsiella michiganensis	enterobacteria	76.6	<u>4</u>	Klebsiella michiganensis hits
Klebsiella oxytoca	enterobacteria	75.9	<u>1</u>	Klebsiella oxytoca hits
Klebsiella aerogenes	enterobacteria	76.6	<u>1</u>	Klebsiella aerogenes hits
Klebsiella pneumoniae	<u>enterobacteria</u>	73.6	<u>17</u>	Klebsiella pneumoniae hits
Klebsiella quasipneumoniae	enterobacteria	73.2	2	Klebsiella quasipneumoniae hits
Klebsiella pneumoniae subsp. rhinoscleromatis	enterobacteria	73.6	<u>1</u>	Klebsiella pneumoniae subsp. rhinoscleromatis hits
Klebsiella pneumoniae subsp. ozaenae	enterobacteria	73.6	<u>1</u>	Klebsiella pneumoniae subsp. ozaenae hits
Klebsiella variicola	<u>enterobacteria</u>	73.2	<u>1</u>	Klebsiella variicola hits
Escherichia coli	<u>enterobacteria</u>	74.3	84	Escherichia coli hits
Enterobacteriaceae bacterium TzEc052	<u>enterobacteria</u>	73.9	<u>2</u>	Enterobacteriaceae bacterium TzEc052 hits
Salmonella enterica	<u>enterobacteria</u>	75.5	<u>4</u>	Salmonella enterica hits
Salmonella enterica subsp. enterica serovar Typhimurium	enterobacteria	75.1	2	Salmonella enterica subsp. enterica serovar Typhimurium hits
Escherichia coli 3-105-05_S3_C2	<u>enterobacteria</u>	74.3	<u>1</u>	Escherichia coli 3-105-05_S3_C2 hits
Escherichia coli 3-475-03_S4_C1	<u>enterobacteria</u>	74.3	<u>1</u>	Escherichia coli 3-475-03_S4_C1 hits
Escherichia coli 0145:H28	<u>enterobacteria</u>	73.9	<u>1</u>	Escherichia coli 0145:H28 hits
uncultured Enterobacter sp.	enterobacteria	74.3	<u>1</u>	uncultured Enterobacter sp. hits
Escherichia coli DEC5E	<u>enterobacteria</u>	74.3	<u>1</u>	Escherichia coli DEC5E hits
Shigella flexneri	<u>enterobacteria</u>	74.7	<u>1</u>	Shigella flexneri hits
Escherichia coli UCI 51	<u>enterobacteria</u>	74.7	<u>1</u>	Escherichia coli UCI 51 hits

## NCBI Blast:Protein Sequence

Pluralibacter sp.	<u>enterobacteria</u>	73.2	2	Pluralibacter sp. hits
<u>Citrobacter sp.</u>	enterobacteria	73.6	<u>1</u>	Citrobacter sp. hits
uncultured Citrobacter sp.	enterobacteria	72.4	<u>1</u>	uncultured Citrobacter sp. hits
Salmonella enterica subsp. enterica serovar Infantis	enterobacteria	71.6	<u>1</u>	Salmonella enterica subsp. enterica serovar Infantis hits
Salmonella enterica subsp. enterica serovar 4,[5],12:i:-	<u>enterobacteria</u>	71.6	<u>1</u>	Salmonella enterica subsp. enterica serovar 4,[5],12:i:- hits
Salmonella enterica subsp. enterica serovar Enteritidis	enterobacteria	72.0	<u>1</u>	Salmonella enterica subsp. enterica serovar Enteritidis hits
Salmonella enterica subsp. enterica serovar Menston	enterobacteria	72.4	<u>1</u>	Salmonella enterica subsp. enterica serovar Menston hits
Pseudomonas aeruginosa	g-proteobacteria	73.6	<u>2</u>	Pseudomonas aeruginosa hits
Vibrio sp. FNV 38	g-proteobacteria	74.7	<u>1</u>	Vibrio sp. FNV 38 hits
Shewanella xiamenensis	g-proteobacteria	74.7	2	Shewanella xiamenensis hits
Lutimaribacter sp. EGI FJ00015	a-proteobacteria	74.7	<u>1</u>	Lutimaribacter sp. EGI FJ00015 hits
. <u>Bacteroides heparinolyticus</u>	CFB group bacteria	72.4	<u>1</u>	Bacteroides heparinolyticus hits
.Myxococcus sp. AM001	<u>bacteria</u>	72.8	<u>1</u>	Myxococcus sp. AM001 hits

# • Organism

Description	Score	E value	Accession
Clebsiella michiganensis [enterobacteria ]	'		
itrate/2-methylcitrate synthase [Klebsiella michiganensis]	76.6	3e-16	MDU4389148
itrate/2-methylcitrate synthase, partial [Klebsiella michiganensis]	72.4	3e-15	WP_308298152
itrate (Si)-synthase, partial [Klebsiella michiganensis]	72.4	3e-15	PLN97258
Citrate synthase (si) [Klebsiella michiganensis]	73.6	5e-15	STR40740
Clebsiella oxytoca [enterobacteria ]			
<u>sitrate (Si)-synthase [Klebsiella oxytoca]</u>	75.9	4e-16	HEC2128142
Clebsiella aerogenes [enterobacteria ]			
itrate/2-methylcitrate synthase, partial [Klebsiella aerogenes]	76.6	5e-16	WP_32312965
Scherichia coli [enterobacteria ]			
itrate/2-methylcitrate synthase [Escherichia coli]	74.3	9e-16	MDY3720482
citrate (Si)-synthase [Escherichia coli]	74.3	9e-16	EIF4801338
citrate (Si)-synthase [Escherichia coli]	74.3	9e-16	EI07639400
citrate (Si)-synthase [Escherichia coli]	74.3	9e-16	HDI5885905
itrate/2-methylcitrate synthase, partial [Escherichia coli]	73.9	9e-16	WP_28357187
citrate (Si)-synthase [Escherichia coli]	73.9	1e-15	HBI9786764
citrate (Si)-synthase [Escherichia coli]	74.3	1e-15	MWR90423
itrate/2-methylcitrate synthase, partial [Escherichia coli]	73.9	1e-15	WP_28620596
citrate (Si)-synthase [Escherichia coli]	73.9	1e-15	MWQ98706
citrate (Si)-synthase [Escherichia coli]	73.9	1e-15	MBA1933872
citrate (Si)-synthase [Escherichia coli]	74.7	1e-15	MSI35684
itrate/2-methylcitrate synthase, partial [Escherichia coli]	74.3	1e-15	WP_32209863
citrate (Si)-synthase [Escherichia coli]	74.3	1e-15	MCF4025416
citrate/2-methylcitrate synthase, partial [Escherichia coli]	73.9	1e-15	WP_30230645
citrate/2-methylcitrate synthase [Escherichia coli]	73.9	1e-15	MD02792760
citrate synthase [Escherichia coli]	73.9	1e-15	VED36794
citrate/2-methylcitrate synthase, partial [Escherichia coli]	74.3	1e-15	WP_28357014
citrate (Si)-synthase [Escherichia coli]	73.9	1e-15	MDN1366952
citrate (Si)-synthase [Escherichia coli]	74.3	1e-15	MBS8847612
citrate (Si)-synthase [Escherichia coli]	73.6	1e-15	MBS8919746
itrate/2-methylcitrate synthase, partial [Escherichia coli]	74.3	1e-15	WP_27551118
citrate (Si)-synthase [Escherichia coli]	73.6	1e-15	MC00173501
citrate/2-methylcitrate synthase, partial [Escherichia coli]	74.7	1e-15	WP_28414704
citrate/2-methylcitrate synthase, partial [Escherichia coli]	73.6	1e-15	WP_28473700
citrate (Si)-synthase [Escherichia coli]	73.6	1e-15	MBA2037725
citrate (Si)-synthase [Escherichia coli]	74.3	1e-15	HBD5505378
citrate/2-methylcitrate synthase, partial [Escherichia coli]	73.9	1e-15	WP_27273238
citrate (Si)-synthase [Escherichia coli]	73.9	1e-15	HCY92746
citrate synthase [Escherichia coli]	74.3	1e-15	VED13032
citrate/2-methylcitrate synthase, partial [Escherichia coli]	73.6	1e-15	WP_28473700
citrate (Si)-synthase [Escherichia coli]	73.6	1e-15	MBA2041438
citrate (Si)-synthase [Escherichia coli]	74.3	1e-15	EGJ6209831
citrate (Si)-synthase [Escherichia coli]	73.2	1e-15	HCN8565948
citrate/2-methylcitrate synthase, partial [Escherichia coli]	73.6	1e-15	WP_27288102
citrate (Si)-synthase [Escherichia coli]	73.6	1e-15	MCF6615264
citrate (Si)-synthase [Escherichia coli]	73.6	1e-15	MWQ97432
citrate/2-methylcitrate synthase, partial [Escherichia coli]	73.2	1e-15	WP_28469641

Description         Scote   Evalue   Accession           Acces	521, 13.11	TVCBI Blast. Fotom Sequence			
citted 19 Symbase Richarchited soull         7.2         1.9.1         MoNUSSED           citted 19 Symbase Richarchited soull         7.2         1.9.1         MONUSSED           citted 10 Symbase Richarchited soull         7.2         1.9.1         MONUSSED           citted 10 Symbase Richarchited soull         7.2         1.9.1         MONUSSED           citted 10 Symbase Richarchite soull         7.2         2.9.1         MONUSSED           citted 10 Symbase Richarchite s	Description		Score	E value	Accession
cither füll-gentlane Einsheithin aufl         72         1-15         MWEZZEND           cither füll-gentlane Einsheithin aufl         72         1-15         MEZZEND           cither füll-gentlane Einsheithin aufl         1-15         MEZZENDZEND           cither füll-gentlane Einsheithin aufl         1-16         1-15         MEZZENDZENDZENDZENDZENDZENDZENDZENDZENDZE	citrate (Si)-synthase [Escherichia coli]		73.2	1e-15	MBF7986016
citted für Synthesia Richarchita sall         72,2         16,15         MYZE 12022           citted für Synthesia Richarchita sall         72,2         16,15         MYZE 12022           citted für Synthesia Richarchita sall         72,0         16,15         MYZE 12022           citted für Synthesia Richarchita sall         72,0         16,15         MYZE 12022           citted für Synthesia Richarchita sall         72,0         16,15         MERCHENISTE           citted für Synthesia Richarchita sall         72,2         26,15         MER	citrate (Si)-synthase [Escherichia coli]		73.2	1e-15	MWM20870
Distant   Companies   Compan	citrate (Si)-synthase [Escherichia coli]		73.2	1e-15	MWR75286
Commany   Comm	citrate (Si)-synthase [Escherichia coli]		73.2	1e-15	MWT26135
Carbon   Profession   1978	citrate (Si)-synthase [Escherichia coli]		73.2	1e-15	MXJ13823
Desire   150 combines   Escherichia cell   17,0   16,15   16,000   16,15   16,15   16,000   16,15   16,15   16,100   16,15	citrate/2-methylcitrate synthase, partial [Escherichia coli]		74.3	1e-15	WP_032236753
	citrate/2-methylcitrate synthase, partial [Escherichia coli]		73.6	1e-15	WP_289709520
International Content   Inte	citrate (Si)-synthase [Escherichia coli]		73.6	1e-15	MBA1884166
	citrate (Si)-synthase [Escherichia coli]		74.3	1e-15	MBI0909235
Part	citrate (Si)-synthase [Escherichia coli]		73.2	1e-15	MDM1725847
	citrate/2-methylcitrate synthase, partial [Escherichia coli]		73.2	1e-15	WP_284693070
State   19.	citrate (Si)-synthase, partial [Escherichia coli]		73.2	1e-15	KAE9718461
clintal (Silvanthalar partial (Escherichia cell)         74.3         2+18         MMINTS           clintal (Silvanthalar Escherichia cell)         72.8         2+18         MMINTS           clintal (Silvanthalar Escherichia cell)         72.7         2+15         MMINTS           clintal (Silvanthalar Escherichia cell)         74.7         2+15         MCASS22276           clintal (Silvanthalar Escherichia cell)         74.3         2+15         NESCRIPTION           clintal (Silvanthalar Escherichia cell)         74.3         2+15         NESCRIPTION           clintal (Silvanthalar Escherichia cell)         74.3         2+15         NESCRIPTION           clintal (Silvanthalar Escherichia cell)         74.3         2+16         NESCRIPTION           clintal (Silvanthalar Escherichia cell)         74.3         2+16         NESCRIPTION           clintal (Silvanthalar Escherichia cell)         74.3         2+15         MINTS           clintal (Silvanthalar Escherichia cell)         74.3         2+15         MINTS     <	citrate (Si)-synthase [Escherichia coli]		72.8	2e-15	HCN7185207
circate (Si)-synthase Escherichia cell         7.8         2-15         MMNT72882           circate (Si)-synthase Escherichia cell         7.7         7-15         MCRAS22276           circate (Si)-synthase Escherichia cell         7.7         7-15         MCRAS22276           circate (Si)-synthase Escherichia cell         7.3         2-15         MCRAS22262           circate (Si)-synthase Escherichia cell         7.3         2-15         MCRAS226261           circate (Si)-synthase Escherichia cell         7.3         2-15         MCRAS226281           circate (Si)-synthase Escherichia cell         7.3         2-15         MCRAS226281           circate (Si)-synthase Escherichia cell         7.4         2-15         MCRAS226281           circate (Si)-synthase Escherichia cell         7.4         2-15         MCRAS226281           circate (Si)-synthase Escherichia cell         7.4         2-15         MCRAS226281           circate (Si)-synthase Escherichia cell         7.2         2-15         MCRAS226282	citrate/2-methylcitrate synthase [Escherichia coli]		74.3	2e-15	MDU7304414
	citrate (Si)-synthase, partial [Escherichia coli]		74.3	2e-15	PZT65910
Calesta (50)-synthasa (Escherichia ceil   74,7   26,15   10,000,000,000,000,000,000,000,000,000,	citrate (Si)-synthase [Escherichia coli]		72.8	2e-15	MDM1725853
cittati (22. methylicitatis ynthiase, tarital Eischerichia coll         74,3         2e 15         MC 977775835           cittati (23. ynthiase Eischerichia coll         74,3         2e 15         MC 98559722           cittatis (23. ynthiase Eischerichia coll         74,3         2e 15         MC 92852891           cittatis (23. ynthiase Eischerichia coll         74,3         2e 15         MC 92852891           cittatis (33. ynthiase Eischerichia coll         74,3         2e 15         MC 92852891           cittatis (34. ynthiase Eischerichia coll         74,3         2e 15         MC 92852891           cittatis (34. ynthiase Eischerichia coll         74,3         2e 15         MC 9285281           cittatis (34. ynthiase Eischerichia coll         74,3         2e 15         ME 108122           cittatis (34. ynthiase Eischerichia coll         74,3         2e 15         ME 108122           cittatis (34. ynthiase Eischerichia coll         74,3         2e 15         ME 108122           cittatis (34. ynthiase Eischerichia coll         74,3         2e 15         ME 10822           cittatis (34. ynthiase Eischerichia coll         74,7         2e 15         ME 10822           cittatis (34. ynthiase Eischerichia coll         74,7         2e 15         ME 108245           cittatis (34. ynthiase Eischerichia coll	citrate (Si)-synthase [Escherichia coli]		74.7	2e-15	MCA8592376
	citrate (Si)-synthase [Escherichia coli]		74.7	2e-15	HDS4039354
cittate 2-methysichtate symthase, partial (Escherichia coll)         74,3         2-15         WP_289508712           cittate 2-methysichtate symthase, partial (Escherichia coll)         74,3         2-15         MC_2862392           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         MC_2862392           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         OKUS2881           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         GS039322           cittate symthase (Escherichia coll)         74,3         2-15         GS039322           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         GS039322           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         MRL106225           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         MRL106225           cittate (Sil-ymbhase (Escherichia coll)         74,3         2-15         MRL106252           cittate (Sil-ymbhase (Escherichia coll)         74,7	citrate/2-methylcitrate synthase, partial [Escherichia coli]		74.3	2e-15	WP_077779533
Circle (27- methysicitate synthase, nartial [Escherichia coll   74,3   74,5	citrate (Si)-synthase [Escherichia coli]		74.3	2e-15	HDQ5165782
citzate (Sh-aymthase (Escherichia coll)         74,3         2+15         MC,18623993           citzate (Sh-aymthase, nartial (Escherichia coll)         74,3         2+15         OKUSZ881           citzate synthase (Escherichia coll)         74,3         2+15         OB033942           citzate synthase (Escherichia coll)         74,3         2+15         OB033942           citzate (Sh-aymthase (Escherichia coll)         74,3         2+15         MBL1048228           citzate (Sh-aymthase (Escherichia coll)         74,7         2+15         MBL1048128           citzate (Sh-aymthase (Escherichia coll)         74,7         2+15         MBL064388           citzate (Sh-aymthase (Escherichia coll)         74,7         2+15         MBL064388           citzate (Sh-aymthase (Escherichia coll)         74,7         2+15         MBC0789362           citzate (Sh-aymthase (Escherichia coll)         74,7         3+15         MBC0788672           citzate (Sh-aymthase (Escherichia coll)         74,7         3+15         MBC0	citrate/2-methylcitrate synthase, partial [Escherichia coli]		74.3	2e-15	WP_289508712
citrate (sy) synthase [Escherichia coll]         74,3         2-15         GX052881           citrate (si) synthase [Escherichia coll]         74,3         2-15         GS039324           citrate (sy) synthase [Escherichia coll]         74,3         2-15         GS039324           citrate (sy) synthase [Escherichia coll]         74,3         2-15         MBK1748728           citrate (sh)-synthase [Escherichia coll]         74,3         2-15         MBK1030152           citrate (sh)-synthase [Escherichia coll]         74,3         2-15         MBK1030152           citrate (sh)-synthase [Escherichia coll]         74,7         2-15         MBK1030152           citrate (sh)-synthase [Escherichia coll]         74,7         2-15         MCU064438           citrate (sh)-synthase [Escherichia coll]         74,7         2-15         HDK0067306           citrate (sh)-synthase [Escherichia coll]         74,7         2-15         HDK0067306           citrate (sh)-synthase [Escherichia coll]         74,7         2-15         HDK0067306           citrate (sh)-synthase [Escherichia coll]         74,7         3-15         MCC7889725           citrate (sh)-synthase [Escherichia coll]         74,7         3-15         MCC7889726           citrate (sh)-synthase [Escherichia coll]         74,7         3-15	citrate/2-methylcitrate synthase, partial [Escherichia coli]		74.3	2e-15	WP_074522594
cittate (Si)-synthase [Escherichia coll]         74,3         2-15         H867274832           cittate synthase [Escherichia coll]         74,3         2-15         GD839342           cittate synthase [Escherichia coll]         74,3         2-15         STA5176           cittate (Si)-synthase [Escherichia coll]         74,3         2-15         MBL019528           cittate (Si)-synthase [Escherichia coll]         74,3         2-15         MBL019528           cittate (Si)-synthase [Escherichia coll]         74,3         2-15         MBL019528           cittate (Si)-synthase [Escherichia coll]         74,7         2-15         MC08844388           cittate (Si)-synthase [Escherichia coll]         74,7         2-15         MBL0964388           cittate (Si)-synthase [Escherichia coll]         74,7         2-15         MBL0964388           cittate (Si)-synthase [Escherichia coll]         74,7         2-15         MBL0964388           cittate (Si)-synthase [Escherichia coll]         74,7         3-15         MC0798975           cittate (Si)-synthase [Escherichia coll]         74,7         3-15         MC0798975           cittate (Si)-synthase [Escherichia coll]         74,7         3-15         MC0798972           cittate (Si)-synthase [Escherichia coll]         74,7         3-15         MC079	citrate (Si)-synthase [Escherichia coli]		74.3	2e-15	MCJ8623990
citrate synthase [Escherichia coll]         74.3         2e.15         SCB03942           citrate synthase [Escherichia coll]         74.3         2e.15         MBL1018225           citrate (Sh)-synthase [Escherichia coll]         74.3         2e.15         MBL1018225           citrate (Sh)-synthase [Escherichia coll]         74.3         2e.15         MBL1038152           citrate (Sh)-synthase [Escherichia coll]         74.3         2e.15         MBL1038152           citrate (Sh)-synthase [Escherichia coll]         74.7         2e.15         MBU384158           citrate (Sh)-synthase [Escherichia coll]         74.7         2e.15         MBU384158           citrate (Sh)-synthase [Escherichia coll]         74.7         2e.15         MBU38456           citrate (Sh)-synthase [Escherichia coll]         74.7         2e.15         MBC0962306           citrate (Sh)-synthase [Escherichia coll]         74.7         3e.15         MC0788975           citrate (Sh)-synthase [Escherichia coll]         74.7         3e.15         MC0788975           citrate (Sh)-synthase [Escherichia coll]         74.7         3e.15         MC07889130           citrate (Sh)-synthase [Escherichia coll]         74.7         3e.15         MC07889130           citrate (Sh)-synthase [Escherichia coll]         74.7         3e.15	citrate synthase, partial [Escherichia coli]		74.3	2e-15	OKU52881
citrate synthase [Escherichia coll]         74.3         2e.15         MBK1748728           citrate (Sib-synthase [Escherichia coll]         74.3         2e.15         MBK1748728           citrate (Sib-synthase [Escherichia coll]         74.3         2e.15         MBK1748728           citrate (Sib-synthase [Escherichia coll]         74.3         2e.15         MBL10382152           citrate synthase [Escherichia coll]         74.7         2e.15         MCU8644858           citrate (Sib-synthase [Escherichia coll]         74.7         2e.15         MCC78867725           citrate (Sib-synthase [Escherichia coll]         74.7         3e.15         MCC78867725           citrate (Sib-synthase [Escherichia coll]         74.7         3e.15         MCC78867725           citrate (Sib-synthase [Escherichia coll]         74.7         3e.15         MCC78867725           citrate (Sib-synthase [Escherichia coll]         74.7 <t< td=""><td>citrate (Si)-synthase [Escherichia coli]</td><td></td><td>74.3</td><td>2e-15</td><td>HBB7874832</td></t<>	citrate (Si)-synthase [Escherichia coli]		74.3	2e-15	HBB7874832
cittate (Si)-synthase [Escherichia coll]         74.3         2e.15         MBK1716225           cittate (Si)-synthase [Escherichia coll]         74.3         2e.15         MBK1036152           cittate (Si)-synthase [Escherichia coll]         74.3         2e.15         MSC1036152           cittate synthase [Escherichia coll]         74.7         2e.15         MCU8644588           cittate (Si)-synthase [Escherichia coll]         74.7         2e.15         MEURO464586           cittate (Si)-synthase [Escherichia coll]         74.7         2e.15         MERO97866           cittate (Si)-synthase [Escherichia coll]         74.7         2e.15         MERO97866           cittate (Si)-synthase [Escherichia coll]         74.7         2e.15         MCC798972           cittate (Si)-synthase [Escherichia coll]         74.7         3e.15         MPC.7446600           cittate (Si)-synthase [Escherichia coll]         74.7         3e.15         MPC.7346182           cittate (Si)-synthase (Escherichia coll)         74.7         3	citrate synthase [Escherichia coli]		74.3	2e-15	GDS03942
cittate (SI)-synthase [Escherichia coil]         74.3         2e-15         MBL1036152           cittate (SI)-synthase [Escherichia coil]         74.3         2e-15         MBL1036152           cittate (SI)-synthase [Escherichia coil]         74.7         2e-15         MCU846438           cittate (SI)-synthase [Escherichia coil]         74.7         2e-15         HDK0967206           cittate (SI)-synthase [Escherichia coil]         74.7         2e-15         HDK0967206           cittate (SI)-synthase [Escherichia coil]         74.7         3e-15         MCC7986972           cittate (SI)-synthase [Escherichia coil]         74.7         3e-15         MCC79869130           cittate (SI)-synthase [Escherichia coil]         74.7	citrate synthase [Escherichia coli]		74.3	2e-15	STJ45176
cittate (S1)-synthase [Escherichia coll]         74.3         2-15         MBL1036152           cittate (S1)-synthase [Escherichia coll]         74.3         2-15         MCU864458           cittate (S1)-synthase [Escherichia coll]         74.7         2-15         MCU8644388           cittate (S1)-synthase [Escherichia coll]         74.7         2-15         MBL10464           cittate (S1)-synthase [Escherichia coll]         74.7         2-15         MDK0967306           cittate (S1)-synthase [Escherichia coll]         74.7         3-15         MC27986975           cittate (S1)-synthase [Escherichia coll]         74.7         3-15         MC27989130           cittate (S1)-synthase [Escherichia coll]         74.7         3-15         MC27989130           cittate (S1)-synthase [Escherichia coll]         74.7         3-15         MC2798130           cittate (S1)-synthase [Escherichia coll]         74.7         3-15         MC2798130           cittate (S1)-synthase [Escherichia coll]         74.7         3-15	citrate (Si)-synthase [Escherichia coli]		74.3	2e-15	MBK1748728
citrate symthase [Escherichia coll]         74.3         2e.15         MCU864438           citrate (SI)-symthase [Escherichia coll]         74.7         2e.15         MCU864438           citrate (SI)-symthase partial [Escherichia coll]         74.7         2e.15         HDK0967306           citrate (SI)-symthase [Escherichia coll]         74.7         2e.15         HDK0967306           citrate (SI)-symthase [Escherichia coll]         74.7         3e.15         MCC7869725           citrate (SI)-symthase [Escherichia coll]         74.7         3e.15         MCC7869725           citrate (SI)-symthase [Escherichia coll]         74.7         3e.15         MCC7869725           citrate (SI)-symthase [Escherichia coll]         74.7         3e.15         MCC7889130           citrate (SI)-symthase [Escherichia coll]         74.7         3e.15         MSH86413           citrate (SI)-symthase [Escherichia coll]         71.2         6e.15         MSH86413           citrate (SI)-symthase [Escherichia coll]         71.2	citrate (Si)-synthase [Escherichia coli]		74.3	2e-15	MBL1016225
cittate (SI)-synthase, partial [Escherichia coll]         74,7         2e-15         RiB41964           cittate (SI)-synthase, partial [Escherichia coll]         74,7         2e-15         RiB41964           cittate (SI)-synthase [Escherichia coll]         74,7         2e-15         MP-324251799           cittate (SI)-synthase [Escherichia coll]         74,7         3e-15         MCC7986975           cittate (SI)-synthase [Escherichia coll]         74,7         3e-15         EE20887125           cittate (SI)-synthase [Escherichia coll]         74,7         3e-15         MCC7986973           cittate (SI)-synthase [Escherichia coll]         74,7         3e-15         MP-324251827           cittate (SI)-synthase [Escherichia coll]         74,7         3e-15         MCC7989130           cittate (SI)-synthase [Escherichia coll]         <	<u>citrate (Si)-synthase [Escherichia coli]</u>		74.3	2e-15	MBL1036152
citrate (Si)-synthase, partial Escherichia coli         74,7         2e-15         HDK0967306           citrate (Si)-synthase [Escherichia coli]         74,7         2e-15         HDK0967306           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         WP. 324251792           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         MCC7986975           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         WP. 074466000           citrate (Si)-synthase [Escherichia coli]         73,2         3e-15         WP. 074466000           citrate (Si)-synthase [Escherichia coli]         73,2         3e-15         MCC7989130           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         MCC7989130           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         MCC7989130           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         MS186413           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         MS186413           citrate (Si)-synthase [Escherichia coli]         74,7         3e-15         MS186413           citrate (Si)-synthase [Ascherichia coli]         71,2         6e-15         MP. 30031836           citrate (Si)-synthase [Ascherichia coli]         71,	<u>citrate synthase [Escherichia coli]</u>		74.3	2e-15	VDZ04469
Strate (Si) - synthase   Escherichia coll   47,	<u>citrate (Si)-synthase [Escherichia coli]</u>		74.7	2e-15	MCU8644358
citrate/2-methylcitrate synthase, Partial [Escherichia coil]         74.7         3e-15         MCC7986975           citrate (Si)-synthase [Escherichia coil]         74.7         3e-15         EZCOSB7125           citrate (Si)-synthase [Escherichia coil]         74.7         3e-15         EZCOSB7125           citrate (Si)-synthase, Bertial [Escherichia coil]         74.7         3e-15         WP. 074465002           citrate (Si)-synthase, Bertial [Escherichia coil]         73.2         3e-15         MCC7989130           citrate synthase [Escherichia coil]         74.7         3e-15         EYCS17482           citrate synthase [Escherichia coil]         74.7         3e-15         EYCS17482           citrate synthase [Escherichia coil]         74.7         3e-15         EYCS17482           citrate (Si)-synthase [Escherichia coil]         74.7         3e-15         MSB6613           citrate (Si)-synthase [Escherichia coil]         71.2         6e-15         MSB6613           citrate (Si)-synthase [Escherichia coil]         71.2         6e-15         BDY93505           citrate (Si)-synthase [Escherichia coil]         71.2         6e-15         BDY93505           citrate (Si)-synthase [Sicherichia coil]         73.6         9e-16         WP. 309301862           citrate (Si)-synthase [Sicherichia coil] <td< td=""><td><u>citrate (Si)-synthase, partial [Escherichia coli]</u></td><td></td><td>74.7</td><td>2e-15</td><td>RIB41964</td></td<>	<u>citrate (Si)-synthase, partial [Escherichia coli]</u>		74.7	2e-15	RIB41964
	citrate (Si)-synthase [Escherichia coli]		74.7	2e-15	HDK0967306
citrate (Si)-synthase [Escherichia colii         74.7         3e-15         EEZ0582125           citrate/2-methylcitrate synthase, partial [Escherichia colii         74.7         3e-15         WP_074466000           citrate/2-methylcitrate synthase, partial [Escherichia colii         73.2         3e-15         WP_324251827           citrate (Si)-synthase [Escherichia colii         74.7         3e-15         STL43725           citrate (Si)-synthase [Escherichia colii         74.7         3e-15         EYS517482           citrate (Si)-synthase [Escherichia colii         74.7         3e-15         MSH86413           citrate (Si)-synthase [Escherichia colii         74.7         3e-15         MSH86413           citrate (Si)-synthase [Escherichia colii         74.7         3e-15         MSH86413           citrate (Z-methylcitrate synthase [Escherichia colii         71.2         6e-15         MD2838954           hypothetical protein MUTS15_21620 [Escherichia colii         71.2         6e-15         BBU85554           Klobsiella pneumoniae         8e-15         BBU85554           Klobsiella pneumoniae         8e-15         MSH86613           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.6         9e-16         RBN11767           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         74.7         <	citrate/2-methylcitrate synthase, partial [Escherichia coli]		74.7	3e-15	WP_324251799
	citrate (Si)-synthase [Escherichia coli]		74.7	3e-15	MCC7986975
Section   Sect	citrate (Si)-synthase [Escherichia coli]		74.7	3e-15	EEZ0587125
	<u>citrate/2-methylcitrate synthase, partial [Escherichia coli]</u>		74.7	3e-15	WP_074466000
citrate synthase [Escherichia coll]         74.7         3e-15         STL43725           citrate (Si)-synthase [Escherichia coll]         74.7         3e-15         EEY6517482           citrate (Si)-synthase [Escherichia coll]         74.7         3e-15         MSH86413           citrate/2-methylcitrate synthase, partial [Escherichia coll]         71.2         6e-15         MP-302314285           citrate/2-methylcitrate synthase [Escherichia coll]         71.2         6e-15         MD02838954           hypothetical protein MUTS15 21620 [Escherichia coll]         71.2         6e-15         BDY93505           hypothetical protein EIMP300. 69540 [Escherichia coll]         73.0         6e-15         BDY93505           hypothetical protein EIMP300. 69540 [Escherichia coll]         73.0         6e-15         BDY93505           hypothetical protein EIMP300. 69540 [Escherichia coll]         80.9         6e-15         BDY93505           hypothetical protein EIMP300. 69540 [Escherichia coll]         80.9         6e-15         BDY93505           klopatina Eimpannia E	citrate/2-methylcitrate synthase, partial [Escherichia coli]		73.2	3e-15	WP_324251827
citrate (Si)-synthase [Escherichia coli]         74.7         3e-15         EEY6517482           citrate (Si)-synthase [Escherichia coli]         74.7         3e-15         MSH86413           citrate (Si)-synthase [Escherichia coli]         71.2         6e-15         WP_302314285           citrate/2-methylcitrate synthase [Escherichia coli]         71.2         6e-15         MD02838954           hypothetical protein MUTS15_21620 [Escherichia coli]         71.2         6e-15         BDV93505           hypothetical protein EIMP300_69540 [Escherichia coli]         73.9         6e-15         BBU85554           Klebsiella pneumoniae [enterobacteria ]         citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]         73.6         9e-16         WP_309301862           citrate (Si)-synthase, [klebsiella pneumoniae]         73.6         9e-16         MRN11767           citrate (Si)-synthase, [klebsiella pneumoniae]         73.7         1e-15         TNA27598           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         2e-15         NDR82707           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         3e-15         MP.301952173           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.0         3e-15         MDR82707           citrate (Si)-synthase, [Klebsiella pneumoniae]<	citrate (Si)-synthase [Escherichia coli]		73.2	3e-15	MCC7989130
citrate (Si)-synthase [Escherichia colil         74.7         3e-15         MSH86413           citrate/2-methylcitrate synthase, partial [Escherichia colil         71.2         6e-15         WP_302314285           citrate/2-methylcitrate synthase [Escherichia colil         71.2         6e-15         MD02838954           hypothetical protein MUTS15_21620 [Escherichia colil         71.2         6e-15         BDV93505           hypothetical protein EIMP300_69540 [Escherichia colil         73.9         6e-15         BBU85554           Klebsiella pneumoniae         [enterobacteria         ]         73.6         9e-16         WP_309301862           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.6         9e-16         WP_309301862           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.6         9e-16         MCL7660528           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         74.7         1e-15         TNA27598           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         2e-15         WP_301952173           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         3e-15         NDR82707           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.0         3e-15         MDU2996401           hypothetical protein K26, 27600, partial [Klebsiella	<u>citrate synthase [Escherichia coli]</u>		74.7	3e-15	STL43725
citrate/2-methylcitrate synthase, partial [Escherichia coli]         71.2         6e-15         MD02838954           hypothetical protein MUTS15_21620 [Escherichia coli]         71.2         6e-15         BDY93505           hypothetical protein MUTS15_21620 [Escherichia coli]         73.9         6e-15         BBU85554           Klebsiella protein EIMP300_69540 [Escherichia coli]         73.6         9e-16         WP_309301862           Klebsiella pneumoniae [enterobacteria ]         73.6         9e-16         WP_309301862           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.6         9e-16         RBN11767           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.9         9e-16         MCL7660528           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         74.7         1e-15         TNA27598           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         2e-15         WP_301952173           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         3e-15         PIN64336           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.0         3e-15         MDU2996401           hypothetical protein K26_27600, partial [Klebsiella pneumoniae]         73.2         3e-15         HBY5377556           citrate (Si)-synthase, partial [Klebsiella pneumoniae]	<u>citrate (Si)-synthase [Escherichia coli]</u>		74.7	3e-15	EEY6517482
citrate/2-methylcitrate synthase [Escherichia coli]         71.2         6e-15         MD02838954           hypothetical protein MUTS15_21620 [Escherichia coli]         71.2         6e-15         BDY93505           hypothetical protein EIMP300_69540 [Escherichia coli]         73.6         6e-15         BBU85554           Klebsiella pneumoniae [enterobacteria]	citrate (Si)-synthase [Escherichia coli]		74.7	3e-15	MSH86413
hypothetical protein MUTS15_21620 [Escherichia coli]   71.2   6e-15   8BU85554	citrate/2-methylcitrate synthase, partial [Escherichia coli]		71.2	6e-15	WP_302314285
hypothetical protein EIMP300_69540 [Escherichia coli]   73.9   6e-15   BBU85554     Klebsiella pneumoniae   [enterobacteria ]   73.6   9e-16   WP_309301862     citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]   73.6   9e-16   RBN11767     citrate (Si)-synthase [Klebsiella pneumoniae]   73.9   9e-16   MCL7660528     citrate (Si)-synthase, partial [Klebsiella pneumoniae]   74.7   1e-15   TNA27598     citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]   72.8   2e-15   WP_301952173     citrate (Si)-synthase [Klebsiella pneumoniae]   72.8   2e-15   NDR82707     citrate (Si)-synthase, partial [Klebsiella pneumoniae]   72.8   3e-15   PIN64336     citrate/2-methylcitrate synthase [Klebsiella pneumoniae]   72.0   3e-15   MDU2996401     hypothetical protein K26_27600, partial [Klebsiella pneumoniae]   73.2   3e-15   KTG66061     citrate (Si)-synthase, partial [Klebsiella pneumoniae]   73.2   3e-15   WP_319792845     citrate (Si)-synthase, partial [Klebsiella pneumoniae]   73.2   3e-15   KAB7893513     citrate (Si)-synthase, partial [Klebsiella pneumoniae]   73.2   3e-15   KAB7893513     citrate (Si)-synthase, partial [Klebsiella pneumoniae]   73.2   3e-15   VTM53379	citrate/2-methylcitrate synthase [Escherichia coli]		71.2	6e-15	MD02838954
Klebsiella pneumoniae         [enterobacteria]         73.6         9e-16         WP_309301862           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.6         9e-16         RBN11767           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.9         9e-16         MCL7660528           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         74.7         1e-15         TNA27598           citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]         72.8         2e-15         WP_301952173           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         2e-15         NDR82707           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         72.8         3e-15         PIN64336           citrate/2-methylcitrate synthase [Klebsiella pneumoniae]         72.0         3e-15         MDU2996401           hypothetical protein K26-27600, partial [Klebsiella pneumoniae]         72.0         3e-15         KTG66061           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.2         3e-15         HBY5377556           citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.2         3e-15         KAB7893513           Citrate synthase, partial [Klebsiella pneumoniae]         73.2         3e-15         VTM53379	hypothetical protein MUTS15_21620 [Escherichia coli]		71.2	6e-15	BDY93505
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase partial [Klebsiella pneum	hypothetical protein EIMP300_69540 [Escherichia coli]		73.9	6e-15	BBU85554
citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase partial pneumoniae] citrate (Si)-synt					
citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase partial pneumoniae] citrate (Si)-synthase pneumoniae] citra	citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]		73.6	9e-16	WP_309301862
citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-syntha				9e-16	RBN11767
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate/2-methylcitrate synthase [Klebsiella pneumoniae] citrate/2-methylcitrate synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase [Klebsiella pneumoniae] citrate (Si)-synthase synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase, partial [Klebsiella pneumoniae] citrate (Si)-synthase (si) [Klebsiella pneumoniae]	citrate (Si)-synthase [Klebsiella pneumoniae]			9e-16	MCL7660528
citrate (Si)-synthase [Klebsiella pneumoniae]  citrate (Si)-synthase, partial [Klebsiella pneumoniae]  72.8 3e-15 PIN64336  citrate/2-methylcitrate synthase [Klebsiella pneumoniae]  72.0 3e-15 MDU2996401  hypothetical protein K26_27600, partial [Klebsiella pneumoniae]  72.0 3e-15 KTG66061  citrate (Si)-synthase [Klebsiella pneumoniae]  73.2 3e-15 HBY5377556  citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]  73.2 3e-15 WP_319792845  citrate (Si)-synthase, partial [Klebsiella pneumoniae]  73.2 3e-15 KAB7893513  Citrate synthase (si) [Klebsiella pneumoniae]  73.2 3e-15 VTM53379					
citrate (Si)-synthase, partial [Klebsiella pneumoniae] 72.8 3e-15 PIN64336 citrate/2-methylcitrate synthase [Klebsiella pneumoniae] 72.0 3e-15 MDU2996401 hypothetical protein K26_27600, partial [Klebsiella pneumoniae] 72.0 3e-15 KTG66061 citrate (Si)-synthase [Klebsiella pneumoniae] 73.2 3e-15 HBY5377556 citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 WP_319792845 citrate (Si)-synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 KAB7893513 Citrate synthase (si) [Klebsiella pneumoniae] 73.2 3e-15 VTM53379					
citrate/2-methylcitrate synthase [Klebsiella pneumoniae] 72.0 3e-15 MDU2996401 hypothetical protein K26_27600, partial [Klebsiella pneumoniae] 72.0 3e-15 KTG66061 citrate (Si)-synthase [Klebsiella pneumoniae] 73.2 3e-15 HBY5377556 citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 WP_319792845 citrate (Si)-synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 KAB7893513 Citrate synthase (si) [Klebsiella pneumoniae] 73.2 3e-15 VTM53379	citrate (Si)-synthase [Klebsiella pneumoniae]			2e-15	NDR82707
hypothetical protein K26_27600, partial [Klebsiella pneumoniae] 72.0 3e-15 KTG66061 citrate (Si)-synthase [Klebsiella pneumoniae] 73.2 3e-15 HBY5377556 citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 WP_319792845 citrate (Si)-synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 KAB7893513 Citrate synthase (si) [Klebsiella pneumoniae] 73.2 3e-15 VTM53379	citrate (Si)-synthase, partial [Klebsiella pneumoniae]			3e-15	PIN64336
citrate (Si)-synthase [Klebsiella pneumoniae] 73.2 3e-15 HBY5377556 citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 WP_319792845 citrate (Si)-synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 KAB7893513 Citrate synthase (si) [Klebsiella pneumoniae] 73.2 3e-15 VTM53379	citrate/2-methylcitrate synthase [Klebsiella pneumoniae]			3e-15	MDU2996401
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 WP_319792845 citrate (Si)-synthase, partial [Klebsiella pneumoniae] 73.2 3e-15 KAB7893513 Citrate synthase (si) [Klebsiella pneumoniae] 73.2 3e-15 VTM53379	hypothetical protein K26_27600, partial [Klebsiella pneumoniae]			3e-15	KTG66061
citrate (Si)-synthase, partial [Klebsiella pneumoniae]         73.2         3e-15         KAB7893513           Citrate synthase (si) [Klebsiella pneumoniae]         73.2         3e-15         VTM53379	citrate (Si)-synthase [Klebsiella pneumoniae]		73.2	3e-15	HBY5377556
Citrate synthase (si) [Klebsiella pneumoniae] 73.2 3e-15 VTM53379	citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]		73.2	3e-15	WP_319792845
	<u>citrate (Si)-synthase, partial [Klebsiella pneumoniae]</u>		73.2	3e-15	KAB7893513
Citrate synthase [Klebsiella pneumoniae] 73.2 4e-15 VXZ87087	<u>Citrate synthase (si) [Klebsiella pneumoniae]</u>		73.2	3e-15	VTM53379
	<u>Citrate synthase [Klebsiella pneumoniae]</u>		73.2	4e-15	VXZ87087

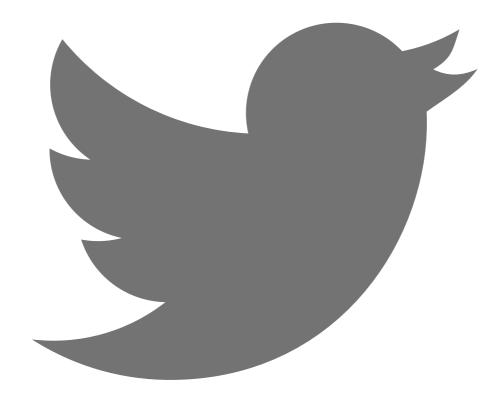
2024, 13.44	eBi Biast.i fotem sequence			
Description		Score	E value	Accession
<u>citrate (Si)-synthase, partial [Klebsiella pneumoniae]</u>		73.2	5e-15	PLB95647
hypothetical protein K16_05185, partial [Klebsiella pneumoniae]		71.6	5e-15	KTG78194
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]		73.6	5e-15	WP_319951103
Enterobacteriaceae bacterium TzEc052 [enterobacteria ]				
citrate (Si)-synthase, partial [Enterobacteriaceae bacterium TzEc052]		73.9	1e-15	KAE9897545
citrate (Si)-synthase, partial [Enterobacteriaceae bacterium TzEc052]		73.6	1e-15	KAE9897179
Salmonella enterica [enterobacteria ]				
citrate (Si)-synthase [Salmonella enterica]		75.5	1e-15	EAZ0641620
citrate (Si)-synthase [Salmonella enterica]		75.1	1e-15	EAM9290843
citrate/2-methylcitrate synthase, partial [Salmonella enterica]		71.6	6e-15	WP_290367269
citrate/2-methylcitrate synthase, partial [Salmonella enterica]		72.0	6e-15	WP_315942705
Salmonella enterica subsp. enterica serovar Typhimurium [enterobacteria ]		75.1	1 - 15	MP74070000
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Typhimurium] citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Typhimurium]		75.1 75.1	1e-15 1e-15	MBZ4878239 EHR9564451
Escherichia coli 3-105-05_S3_C2 [enterobacteria ]		75.1	16-13	<u>E1R9304431</u>
citrate synthase family protein [Escherichia coli 3-105-05_S3_C2]		74.3	1e-15	KDT38988
Escherichia coli 3-475-03_S4_C1				
citrate synthase family protein [Escherichia coli 3-475-03_S4_C1]		74.3	1e-15	KDT77254
Escherichia coli O145:H28 [enterobacteria ]				
citrate (Si)-synthase [Escherichia coli 0145:H28]		73.9	1e-15	EJH5202848
uncultured Enterobacter sp. [enterobacteria ]				-
citrate/2-methylcitrate synthase, partial [uncultured Enterobacter sp.]		74.3	2e-15	WP_288462100
Pseudomonas aeruginosa [g-proteobacteria ]				
citrate (Si)-synthase [Pseudomonas aeruginosa]		73.6	2e-15	MBN0903844
citrate (Si)-synthase [Pseudomonas aeruginosa]		73.2	3e-15	MBN0423480
Bacteroides heparinolyticus [CFB group bacteria ]				
citrate (Si)-synthase [Bacteroides heparinolyticus]		72.4	2e-15	MCF0257894
Vibrio sp. FNV 38 [g-proteobacteria ]				
citrate/2-methylcitrate synthase [Vibrio sp. FNV 38]		74.7	2e-15	MDR9824555
Escherichia coli DEC5E [enterobacteria ]				
citrate synthase domain protein [Escherichia coli DEC5E]		74.3	2e-15	EHV50680
Lutimaribacter sp. EGI FJ00015 [a-proteobacteria ]				
citrate (Si)-synthase [Lutimaribacter sp. EGI FJ00015]		74.7	2e-15	MC00615641
Shigella flexneri [enterobacteria ]				
citrate (Si)-synthase [Shigella flexneri]		74.7	2e-15	HCR7336522
Escherichia coli UCI 51 [enterobacteria ]		74.7	2-15	KD076001
citrate synthase [Escherichia coli UCI 51] Pluralibacter sp. [enterobacteria ]		74.7	3e-15	KDG76081
citrate/2-methylcitrate synthase, partial [Pluralibacter sp.]		73.2	3e-15	WP_293592788
citrate (Si)-synthase [Pluralibacter sp.]		73.2	3e-15	MBV8043537
Klebsiella quasipneumoniae [enterobacteria ]		70.2	00 10	MB V OO V OO V
citrate/2-methylcitrate synthase, partial [Klebsiella quasipneumoniae]		73.2	3e-15	WP_284025715
citrate/2-methylcitrate synthase [Klebsiella quasipneumoniae]		73.2	3e-15	MDK1365021
Myxococcus sp. AM001 [bacteria ]				
citrate (Si)-synthase [Myxococcus sp. AM001]		72.8	3e-15	NVJ12137
Klebsiella pneumoniae subsp. rhinoscleromatis [enterobacteria ]				
Citrate synthase (si) [Klebsiella pneumoniae subsp. rhinoscleromatis]		73.6	4e-15	STW02890
Shewanella xiamenensis [g-proteobacteria ]				
citrate/2-methylcitrate synthase, partial [Shewanella xiamenensis]		74.7	4e-15	WP_279255920
citrate (Si)-synthase [Shewanella xiamenensis]		74.7	4e-15	MDG5902435
Klebsiella pneumoniae subsp. ozaenae [enterobacteria ]				
Citrate synthase (si) [Klebsiella pneumoniae subsp. ozaenae]		73.6	4e-15	STV52690
Citrobacter sp. [enterobacteria ]				
citrate/2-methylcitrate synthase [Citrobacter sp.]		73.6	4e-15	MDU1753658
Klebsiella variicola [enterobacteria ]				
<u>Citrate synthase (si) [Klebsiella variicola]</u>		73.2	5e-15	STU80410
uncultured Citrobacter sp. [enterobacteria ]				
citrate/2-methylcitrate synthase, partial [uncultured Citrobacter sp.]		72.4	5e-15	WP_288627250
Salmonella enterica subsp. enterica serovar Infantis [enterobacteria ]				
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Infantis]		71.6	6e-15	HC19980600
Salmonella enterica subsp. enterica serovar 4,[5],12:i:- [enterobacteria ]				
type II citrate synthase, partial [Salmonella enterica subsp. enterica serovar 4,[5],12:i:-]		71.6	6e-15	KUA64007

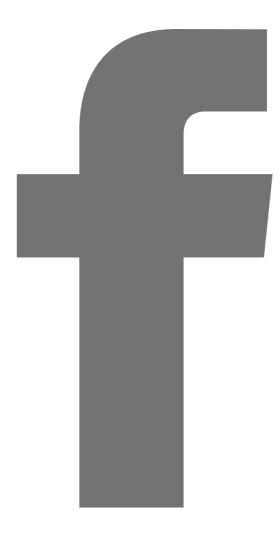
Description	Score	E value	Accession
Salmonella enterica subsp. enterica serovar Enteritidis [enterobacteria ]			
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Enteritidis]	72.0	6e-15	EDA8932280
Salmonella enterica subsp. enterica serovar Menston [enterobacteria ]			
citrate synthase [Salmonella enterica subsp. enterica] [Salmonella enterica subsp. enterica serovar Menston]	72.4	6e-15	SQJ25585

# Taxonomy

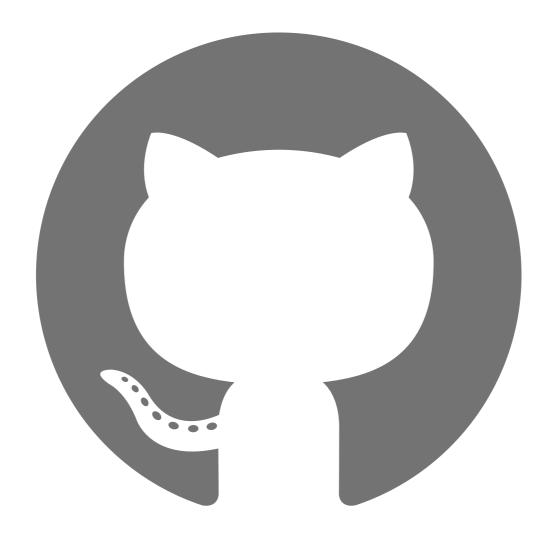
Taxonomy	Number of hits	Number of Organisms	Description
<u>Bacteria</u>	143	32	
. <u>Pseudomonadota</u>	141	30	
<u>Gammaproteobacteria</u>	140	29	
Enterobacteriaceae	<u>135</u>	26	
<u>Klebsiella</u>	28	8	
Klebsiella michiganensis	<u>4</u>	1	Klebsiella michiganensis hits
Klebsiella oxytoca	<u>1</u>	1	Klebsiella oxytoca hits
Klebsiella aerogenes	<u>1</u>	1	Klebsiella aerogenes hits
<u>Klebsiella pneumoniae</u>	<u>17</u>	3	Klebsiella pneumoniae hits
Klebsiella pneumoniae subsp. rhinoscleromatis	<u>1</u>	1	Klebsiella pneumoniae subsp. rhinoscleromatis hits
Klebsiella pneumoniae subsp. ozaenae	<u>1</u>	1	Klebsiella pneumoniae subsp. ozaenae hits
Klebsiella quasipneumoniae	2	1	Klebsiella quasipneumoniae hits
Klebsiella variicola	<u>1</u>	1	Klebsiella variicola hits
Escherichia	<u>89</u>	6	
Escherichia coli	84	6	Escherichia coli hits
Escherichia coli 3-105-05_S3_C2	<u>1</u>	1	Escherichia coli 3-105-05_S3_C2 hits
Escherichia coli 3-475-03_S4_C1	<u>1</u>	1	Escherichia coli 3-475-03_S4_C1 hits
Escherichia coli O145:H28	<u>1</u>	1	Escherichia coli 0145:H28 hits
Escherichia coli DEC5E	<u>1</u>	1	Escherichia coli DEC5E hits
Escherichia coli UCI 51	<u>1</u>	1	Escherichia coli UCI 51 hits
Enterobacteriaceae bacterium TzEc052	<u>2</u>	1	Enterobacteriaceae bacterium TzEc052 hits
<u>Salmonella</u>	<u>10</u>	6	
<u>Salmonella enterica</u>	<u>4</u>	6	Salmonella enterica hits
Salmonella enterica subsp. enterica	<u>6</u>	5	
Salmonella enterica subsp. enterica serovar Typhimurium	<u>2</u>	1	Salmonella enterica subsp. enterica serovar Typhimurium hits
Salmonella enterica subsp. enterica serovar Infantis	<u>1</u>	1	Salmonella enterica subsp. enterica serovar Infantis hits
Salmonella enterica subsp. enterica serovar 4,[5],12:i:-	1	1	Salmonella enterica subsp. enterica serovar 4,[5],12:i:- hits
Salmonella enterica subsp. enterica serovar Enteritidis	1	1	Salmonella enterica subsp. enterica serovar Enteritidis hits
Salmonella enterica subsp. enterica serovar Menston	1	1	Salmonella enterica subsp. enterica serovar Menston hits
<u>uncultured Enterobacter sp.</u>	<u>1</u>	1	uncultured Enterobacter sp. hits
Shigella flexneri	<u>1</u>	1	Shigella flexneri hits
<u>Pluralibacter sp.</u>	<u>2</u>	1	Pluralibacter sp. hits
<u>Citrobacter</u>	<u>2</u>	2	
<u>Citrobacter sp.</u>	<u>1</u>	1	Citrobacter sp. hits
uncultured Citrobacter sp.	<u>1</u>	1	uncultured Citrobacter sp. hits
<u>Pseudomonas aeruginosa</u>	<u>2</u>	1	Pseudomonas aeruginosa hits
<u>Vibrio sp. FNV 38</u>	<u>1</u>	1	Vibrio sp. FNV 38 hits
<u>Shewanella xiamenensis</u>	<u>2</u>	1	Shewanella xiamenensis hits
<u>Lutimaribacter sp. EGI FJ00015</u>	<u>1</u>	1	<u>Lutimaribacter sp. EGI FJ00015 hits</u>
. <u>Bacteroides heparinolyticus</u>	<u>1</u>	1	Bacteroides heparinolyticus hits
. Myxococcus sp. AM001	1	1	Myxococcus sp. AM001 hits

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