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BLAST® > blastp suite > results for RID-UWRMP166013

Your search parameters were adjusted to search for a short input sequence.

Job Title	Protein Sequence ...
RID	UWRMP166013 Search expires on 01-23 19:24 pm
Program	Quick BLASTP
Database	nr
Query ID	lcl Query_6311036
Description	unnamed protein product ...
Molecule type	amino acid
Query Length	17

**Descriptions**

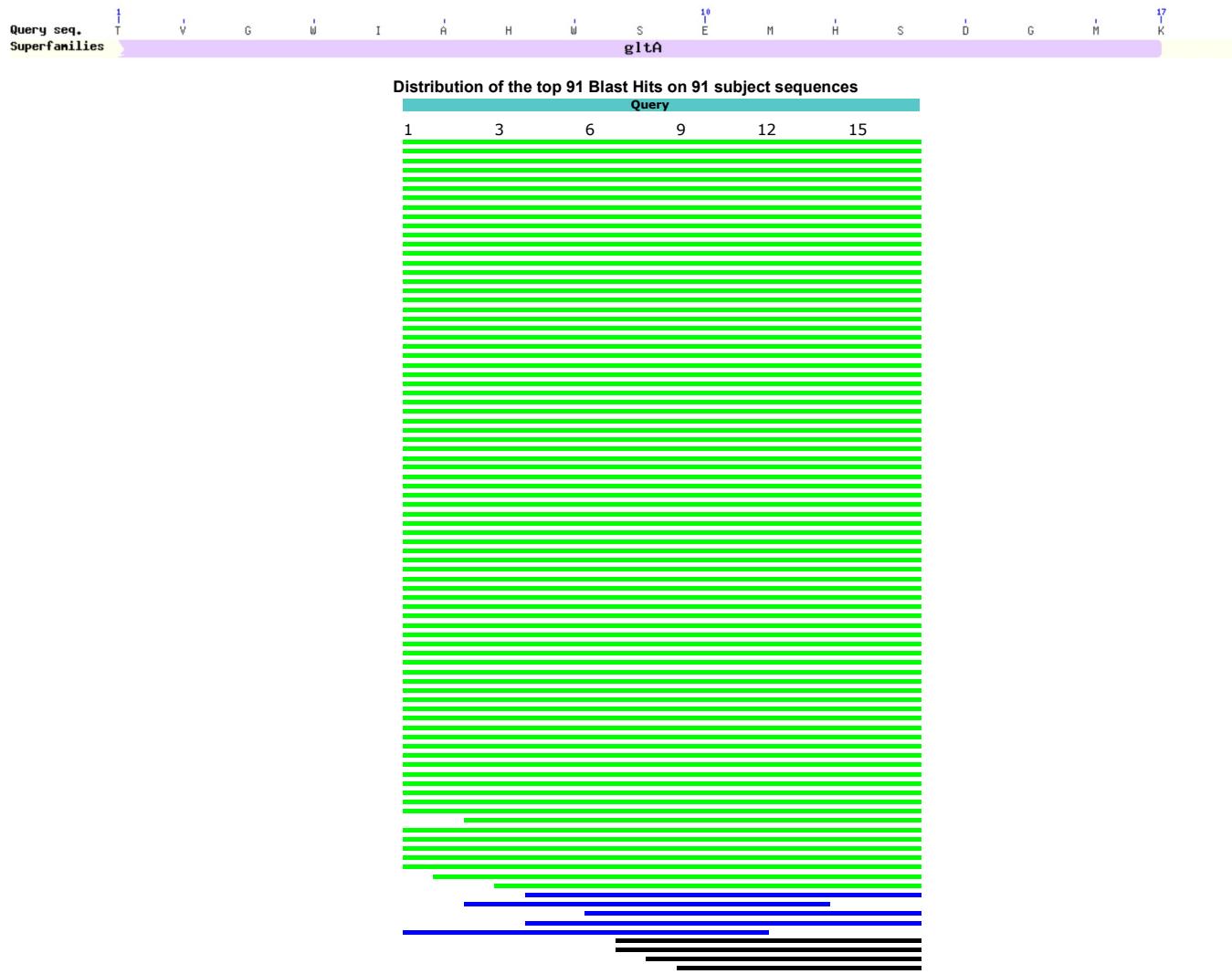
Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession	Feedback
hypothetical protein [Escherichia coli]	Escherichia coli	63.0	63.0	100%	1e-10	100.00%	39	MDM862014	
hypothetical protein [Escherichia coli]	Escherichia coli	63.0	63.0	100%	1e-10	100.00%	39	MDF0764298.1	
Citrate synthase [Escherichia coli DORA_A_5_14_21]	Escherichia coli	63.0	63.0	100%	2e-10	100.00%	42	ETJ26103.1	

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
hypothetical protein [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	42	WP_244581302.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	43	NAI03858.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	44	MCF2047846.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	44	WP_274536608.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	44	WP_283568465.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	45	EJP4275022.1
TPA: citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	45	HAJ5512484.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	47	MBF9176786.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	2e-10	100.00%	47	MBF9180846.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	3e-10	100.00%	48	WP_305766138.1
hypothetical protein MUTS16_31810 [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	3e-10	100.00%	49	BDZ02108.1
type II citrate synthase [Shigella sonnei]	<i>Shigella sonnei</i>	63.0	63.0	100%	3e-10	100.00%	49	CSF75830.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	3e-10	100.00%	50	MCM4299108.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	3e-10	100.00%	51	WP_289710214.1
citrate/2-methylcitrate synthase [Shigella sonnei]	<i>Shigella sonnei</i>	63.0	63.0	100%	3e-10	100.00%	53	WP_289844962.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	4e-10	100.00%	55	WP_302314285.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	4e-10	100.00%	55	MBA1846289.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	<i>Klebsiella pneumoniae</i>	63.0	63.0	100%	5e-10	100.00%	64	WP_301952173.1
citrate (S)-synthase [Bacteroides heparinolyticus]	<i>Bacteroides heparinolyticus</i>	63.0	63.0	100%	5e-10	100.00%	64	MCF0257894.1
TPA: citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	6e-10	100.00%	66	HCN7185207.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	6e-10	100.00%	67	WP_284693070.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	6e-10	100.00%	70	MDM1725853.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	6e-10	100.00%	70	MDM1725847.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	6e-10	100.00%	71	WP_284696415.1
TPA: citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	7e-10	100.00%	72	HCN8565948.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	7e-10	100.00%	75	WP_284737001.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	7e-10	100.00%	75	WP_284737003.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	<i>Klebsiella pneumoniae</i>	63.0	63.0	100%	7e-10	100.00%	76	WP_309301862.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	7e-10	100.00%	77	WP_289709520.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	7e-10	100.00%	78	MCO0173501.1
citrate (S)-synthase [Klebsiella pneumoniae]	<i>Klebsiella pneumoniae</i>	63.0	63.0	100%	7e-10	100.00%	78	MCL7660528.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	7e-10	100.00%	81	MBS8919746.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	83	MBA1933872.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	83	MDN1366952.1
TPA: citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	84	HBI9786764.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	84	WP_286205966.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	86	WP_283571878.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	86	WP_272881025.1
citrate (S)-synthase [Enterobacteriaceae bacterium TzEc052]	<i>Enterobacteriaceae bacterium TzEc052</i>	63.0	63.0	100%	8e-10	100.00%	86	KAE9897545.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	87	WP_302306452.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	179	WP_023146884.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	175	WP_285799680.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	175	WP_285799765.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	174	MPU50470.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	94	WP_272732384.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	94	MWR90423.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	95	WP_283570149.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	96	MDY3720482.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	114	PZT65910.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	114	WP_032236753.1
citrate (S)-synthase [Escherichia coli O145:H28]	<i>Escherichia coli O145:H28</i>	63.0	63.0	100%	8e-10	100.00%	98	EJH5202848.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	110	EGJ6209831.1
citrate synthase family protein [Escherichia coli 3-105-05_S3_C2]	<i>Escherichia coli 3-105-05_S3_C2</i>	63.0	63.0	100%	8e-10	100.00%	109	KDT38988.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	100	EIF4801338.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	100	WP_322098633.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	108	MSI35684.1
citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	108	MBS8847612.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	101	WP_275511187.1
TPA: citrate (S)-synthase [Escherichia coli]	<i>Escherichia coli</i>	63.0	63.0	100%	8e-10	100.00%	105	HBD5505378.1
Citrate synthase (S)-[Klebsiella pneumoniae]	<i>Klebsiella pneumoniae</i>	60.4	60.4	100%	2e-09	94.12%	42	SVN06291.1
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	60.4	60.4	100%	3e-09	94.12%	51	WP_302024566.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	<i>Klebsiella pneumoniae</i>	60.4	60.4	100%	3e-09	94.12%	53	WP_319937664.1
hypothetical protein [klebsiella oxytoca]	<i>Klebsiella oxytoca</i>	60.4	60.4	100%	3e-09	94.12%	53	WP_266097662.1
citrate (S)-synthase [Mycobacterium tuberculosis]	<i>Mycobacterium tuberculosis</i>	60.4	60.4	100%	3e-09	94.12%	54	MBX4322326.1
hypothetical protein [Klebsiella varicola subsp. varicola]	<i>Klebsiella varicola subsp. varicola</i>	60.4	60.4	100%	3e-09	94.12%	55	MCS5946155.1
hypothetical protein [Klebsiella pneumoniae subsp. pneumoniae]	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	60.4	60.4	100%	3e-09	94.12%	55	MCS5961718
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	<i>Klebsiella pneumoniae</i>	60.4	60.4	100%	4e-09	94.12%	58	MDU2996401
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	59.6	59.6	100%	6e-09	94.12%	50	WP_2843446
citrate/2-methylcitrate synthase [Escherichia coli]	<i>Escherichia coli</i>	57.9	57.9	100%	2e-08	88.24%	46	WP_3156465
citrate/2-methylcitrate synthase [Salmonella enterica]	<i>Salmonella enterica</i>	57.9	57.9	100%	2e-08	88.24%	48	WP_072212905.1
hypothetical protein [Escherichia coli]	<i>Escherichia coli</i>	57.1	57.1	88%	2e-08	100.00%	37	WP_251373300.1



Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
hypothetical protein [Salmonella enterica subsp. salamae]	Salmonella enterica subsp. salamae	57.9	57.9	100%	3e-08	88.24%	53	MJG42418.1
citrate/2-methylcitrate synthase [Salmonella enterica]	Salmonella enterica	57.9	57.9	100%	3e-08	88.24%	53	WP_077951339.1
hypothetical protein GP662_34735 [Escherichia coli]	Escherichia coli	57.9	57.9	100%	3e-08	88.24%	54	KAE9778828.1
type II citrate synthase [Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663]	Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663	57.9	57.9	100%	3e-08	88.24%	55	ELL70676.1
citrate (Si)-synthase [Salmonella enterica]	Salmonella enterica	57.9	57.9	100%	3e-08	88.24%	56	EAM6650575.1
hypothetical protein [Klebsiella pneumoniae]	Klebsiella pneumoniae	54.9	54.9	94%	2e-07	87.50%	38	MCP5699513.1
hypothetical protein [Escherichia coli]	Escherichia coli	54.5	54.5	82%	2e-07	100.00%	36	WP_235638712.1
hypothetical protein [Klebsiella pneumoniae]	Klebsiella pneumoniae	46.4	46.4	76%	2e-04	92.31%	35	WP_227501303.1
citrate (Si)-synthase [Gammaproteobacteria bacterium]	Gammaproteobacteria bacterium	44.3	44.3	70%	0.003	91.67%	53	MCP4769382.1
hypothetical protein [Escherichia coli]	Escherichia coli	43.1	43.1	64%	0.004	100.00%	33	WP_251120666.1
citrate synthase [Escherichia coli]	Escherichia coli	42.2	42.2	76%	0.009	92.31%	35	AAA23903.1
Citrate synthase 1 [Anaerobiospirillum thomasi]	Anaerobiospirillum thomasi	40.9	40.9	70%	0.042	83.33%	50	SPT78863.1
hypothetical protein [Escherichia coli]	Escherichia coli	39.2	39.2	58%	0.10	100.00%	32	MCV5934974.1
hypothetical protein [Shigella flexneri]	Shigella flexneri	39.2	39.2	58%	0.10	100.00%	32	MC16426824.1
hypothetical protein [Salmonella enterica]	Salmonella enterica	33.7	33.7	52%	11	100.00%	31	MCR2306724.1
hypothetical protein [Escherichia coli]	Escherichia coli	31.2	31.2	47%	98	100.00%	30	WP_237867542.1
hypothetical protein [Salmonella enterica]	Salmonella enterica	28.6	28.6	47%	842	87.50%	30	WP_261781019.1

Graphic Summary



Alignments

Alignment view Pairwise CDS feature Restore defaults

hypothetical protein [Escherichia coli]

Sequence ID: MDM8620142.1 Length: 39 Number of Matches: 1
Range 1: 1 to 17

Score	Expect	Identities	Positives	Gaps	Frame
63.0 bits(141)	1e-10()	17/17(100%)	17/17(100%)	0/17(0%)	

Query 1 TVGWIAHWSEMHSQGMK 17
Sbjct 1 TVGWIAHWSEMHSQGMK 17



hypothetical protein [Escherichia coli]

Sequence ID: MDF0764298.1 Length: 39 Number of Matches: 1
Range 1: 1 to 17

Score	Expect	Identities	Positives	Gaps	Frame
63.0 bits(141)	1e-10()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	TVGWI AHWSEMHS DGMK	17			
Sbjct 1	TVGWI AHWSEMHS DGMK	17			

MAG: Citrate synthase, partial [Escherichia coli DORA_A_5_14_21]

Sequence ID: ETJ26103.1 Length: 42 Number of Matches: 1
Range 1: 4 to 20

Score	Expect	Identities	Positives	Gaps	Frame
63.0 bits(141)	2e-10()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	TVGWI AHWSEMHS DGMK	17			
Sbjct 4	TVGWI AHWSEMHS DGMK	20			

hypothetical protein, partial [Escherichia coli]

Sequence ID: WP_244581302.1 Length: 42 Number of Matches: 1
Range 1: 4 to 20

Score	Expect	Identities	Positives	Gaps	Frame
63.0 bits(141)	2e-10()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	TVGWI AHWSEMHS DGMK	17			
Sbjct 4	TVGWI AHWSEMHS DGMK	20			

citrate (Si)-synthase [Escherichia coli]

Sequence ID: NAI03958.1 Length: 43 Number of Matches: 1
Range 1: 5 to 21

Score	Expect	Identities	Positives	Gaps	Frame
63.0 bits(141)	2e-10()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	TVGWI AHWSEMHS DGMK	17			
Sbjct 5	TVGWI AHWSEMHS DGMK	21			

Taxonomy

Reports

Lineage

Organism	Blast Name	Score	Number of Hits	Description
Bacteria	bacteria	139		
.Gammaproteobacteria	g-proteobacteria	137		
.Enterobacteriaceae	enterobacteria	135		
...Escherichia	enterobacteria	106		
....Escherichia coli	enterobacteria	63.0	101	Escherichia coli hits
....Escherichia coli DORA_A_5_14_21	enterobacteria	63.0	1	Escherichia coli DORA_A_5_14_21 hits
....Escherichia coli 908525	enterobacteria	63.0	1	Escherichia coli 908525 hits
....Escherichia coli O145:H28	enterobacteria	63.0	1	Escherichia coli O145:H28 hits
....Escherichia coli 3-105-05_S3_C2	enterobacteria	63.0	1	Escherichia coli 3-105-05_S3_C2 hits
....Escherichia coli 3-475-03_S4_C1	enterobacteria	63.0	1	Escherichia coli 3-475-03_S4_C1 hits
...Shigella sonnei	enterobacteria	63.0	3	Shigella sonnei hits
...Klebsiella pneumoniae	enterobacteria	63.0	12	Klebsiella pneumoniae hits
...Enterobacteriaceae bacterium TzEc052	enterobacteria	63.0	2	Enterobacteriaceae bacterium TzEc052 hits
...Klebsiella oxytoca	enterobacteria	60.4	1	Klebsiella oxytoca hits
...Klebsiella variicola subsp. variicola	enterobacteria	60.4	1	Klebsiella variicola subsp. variicola hits
...Klebsiella pneumoniae subsp. pneumoniae	enterobacteria	60.4	1	Klebsiella pneumoniae subsp. pneumoniae hits
...Salmonella enterica	enterobacteria	57.9	5	Salmonella enterica hits
...Salmonella enterica subsp. salamae	enterobacteria	57.9	1	Salmonella enterica subsp. salamae hits
...Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663	enterobacteria	57.9	1	Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663 hits
...Salmonella enterica subsp. enterica serovar Poona	enterobacteria	57.9	1	Salmonella enterica subsp. enterica serovar Poona hits
...Shigella flexneri	enterobacteria	39.2	1	Shigella flexneri hits
..Gammaproteobacteria bacterium	g-proteobacteria	44.3	1	Gammaproteobacteria bacterium hits
..Anaerobiospirillum thomasi	g-proteobacteria	40.9	1	Anaerobiospirillum thomasi hits
.Bacteroides heparinolyticus	CFB group bacteria	63.0	1	Bacteroides heparinolyticus hits
.Mycobacterium tuberculosis	high G+C Gram-positive bacteria	60.4	1	Mycobacterium tuberculosis hits



Organism

Description	Score	E value	Accession
Escherichia coli [enterobacteria]			

Description	Score	E value	Accession
hypothetical protein [Escherichia coli]	63.0	1e-10	MDM8620142
hypothetical protein [Escherichia coli]	63.0	1e-10	MDF0764298
hypothetical protein [Escherichia coli]	63.0	1e-10	MDM8617484
hypothetical protein [Escherichia coli]	63.0	2e-10	MCM2771263
hypothetical protein [Escherichia coli]	63.0	2e-10	MCM2773728
hypothetical protein [Escherichia coli]	63.0	2e-10	MCV5090616
hypothetical protein, partial [Escherichia coli]	63.0	2e-10	WP_244581302
citrate (S)-synthase [Escherichia coli]	63.0	2e-10	NAI03858
citrate (S)-synthase [Escherichia coli]	63.0	2e-10	MCF2047846
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	2e-10	WP_274536608
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	2e-10	WP_283568465
citrate (S)-synthase [Escherichia coli]	63.0	2e-10	EJP4275022
citrate (S)-synthase [Escherichia coli]	63.0	2e-10	HAJ5512484
citrate (S)-synthase [Escherichia coli]	63.0	2e-10	MBF9176786
citrate (S)-synthase [Escherichia coli]	63.0	2e-10	MBF9180846
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	3e-10	WP_305766138
citrate (S)-synthase [Escherichia coli]	63.0	3e-10	MDP4446547
citrate (S)-synthase [Escherichia coli]	63.0	3e-10	MDW4800201
hypothetical protein MUTS16_31810 [Escherichia coli]	63.0	3e-10	BDZ02108
citrate (S)-synthase [Escherichia coli]	63.0	3e-10	MCM4299108
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	3e-10	WP_289710214
citrate (S)-synthase [Escherichia coli]	63.0	3e-10	MBC9681936
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	4e-10	WP_302314285
citrate/2-methylcitrate synthase [Escherichia coli]	63.0	4e-10	MD02838954
hypothetical protein MUTS15_21620 [Escherichia coli]	63.0	4e-10	BDY93505
citrate (S)-synthase [Escherichia coli]	63.0	4e-10	MBA1846289
hypothetical protein [Escherichia coli]	63.0	4e-10	MCZ5847718
citrate synthase [Escherichia coli]	63.0	4e-10	STP21204
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	HCN7185207
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	6e-10	WP_284693070
citrate (S)-synthase, partial [Escherichia coli]	63.0	6e-10	KAE9718461
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MDM1725853
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MDM1725847
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	6e-10	WP_284696415
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MBF7986016
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MWM20870
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MWR75286
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MWT26135
citrate (S)-synthase [Escherichia coli]	63.0	6e-10	MXJ13823
citrate (S)-synthase [Escherichia coli]	63.0	7e-10	HCN8565948
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	7e-10	WP_284737001
citrate (S)-synthase [Escherichia coli]	63.0	7e-10	MBA2037725
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	7e-10	WP_284737003
citrate (S)-synthase [Escherichia coli]	63.0	7e-10	MBA2041438
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	7e-10	WP_289709520
citrate (S)-synthase [Escherichia coli]	63.0	7e-10	MBA1884166
citrate (S)-synthase [Escherichia coli]	63.0	7e-10	MC00173501
citrate (S)-synthase [Escherichia coli]	63.0	7e-10	MBS8919746
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MBA1933872
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MDN1366952
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	HBJ9786764
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_286205966
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_283571878
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_272881025
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MCF6615264
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MWQ97432
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MWQ98706
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_302306452
citrate/2-methylcitrate synthase [Escherichia coli]	63.0	8e-10	MDO2792760
citrate synthase [Escherichia coli]	63.0	8e-10	VED36794
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_023146884
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_285799680
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MBF1857176
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_285799675
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MBF1856645
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MPU50470
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_272732384
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	HCV92746
citrate (S)-synthase [Escherichia coli]	63.0	8e-10	MWR0423
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_283570149



Description	Score	E value	Accession
citrate/2-methylcitrate synthase [Escherichia coli]	63.0	8e-10	MDY3720482
citrate (S <i>i</i>)-synthase, partial [Escherichia coli]	63.0	8e-10	PZT65910
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_032236753
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	EGJ6209831
citrate synthase [Escherichia coli]	63.0	8e-10	VED13032
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	EIF4801338
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	EIO7639400
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	HDI5885905
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_322098633
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	MCF4025416
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	MSI35684
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	MBS8847612
citrate/2-methylcitrate synthase, partial [Escherichia coli]	63.0	8e-10	WP_275511187
citrate (S <i>i</i>)-synthase [Escherichia coli]	63.0	8e-10	HBD5505378
citrate/2-methylcitrate synthase, partial [Escherichia coli]	60.4	3e-09	WP_302024566
citrate (S <i>i</i>)-synthase [Escherichia coli]	60.4	3e-09	MD00550448
citrate/2-methylcitrate synthase, partial [Escherichia coli]	59.6	6e-09	WP_284344613
citrate/2-methylcitrate synthase, partial [Escherichia coli]	57.9	2e-08	WP_315646517
citrate/2-methylcitrate synthase [Escherichia coli]	57.9	2e-08	MDT9091807
hypothetical protein, partial [Escherichia coli]	57.1	2e-08	WP_251373300
hypothetical protein GP662_34735, partial [Escherichia coli]	57.9	3e-08	KAE9778828
hypothetical protein, partial [Escherichia coli]	54.5	2e-07	WP_235638712
hypothetical protein [Escherichia coli]	54.5	2e-07	MCF3399779
hypothetical protein [Escherichia coli]	54.5	2e-07	MCF3401449
citrate synthase, partial [Escherichia coli]	54.5	2e-07	PAB99544
citrate synthase, partial [Escherichia coli]	54.5	2e-07	PAC03509
hypothetical protein, partial [Escherichia coli]	43.1	0.004	WP_251120666
citrate synthase, partial [Escherichia coli]	42.2	0.009	AAA23903
hypothetical protein [Escherichia coli]	39.2	0.10	MCV5934974
hypothetical protein, partial [Escherichia coli]	31.2	98	WP_237867542
hypothetical protein [Escherichia coli]	31.2	98	MCG3024013
Escherichia coli DORA_A_5_14_21 [enterobacteria]			
MAG: Citrate synthase, partial [Escherichia coli DORA_A_5_14_21]	63.0	2e-10	ETJ26103
Shigella sonnei [enterobacteria]			
type II citrate synthase [Shigella sonnei]	63.0	3e-10	CSF75830
citrate/2-methylcitrate synthase, partial [Shigella sonnei]	63.0	3e-10	WP_289844962
type II citrate synthase [Shigella sonnei]	63.0	4e-10	CSG51799
Klebsiella pneumoniae [enterobacteria]			
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]	63.0	5e-10	WP_301952173
citrate (S <i>i</i>)-synthase [Klebsiella pneumoniae]	63.0	5e-10	NDR82707
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]	63.0	7e-10	WP_309301862
citrate (S <i>i</i>)-synthase, partial [Klebsiella pneumoniae]	63.0	7e-10	RBN11767
citrate (S <i>i</i>)-synthase [Klebsiella pneumoniae]	63.0	7e-10	MCL7660528
Citrate synthase (S <i>i</i>) [Klebsiella pneumoniae]	60.4	2e-09	SVN06291
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]	60.4	3e-09	WP_319937664
citrate (S <i>i</i>)-synthase [Klebsiella pneumoniae]	60.4	3e-09	MRD57650
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	60.4	4e-09	MDU2996401
hypothetical protein [Klebsiella pneumoniae]	54.9	2e-07	MCP5699513
hypothetical protein [Klebsiella pneumoniae]	54.5	2e-07	MDH8195997
hypothetical protein, partial [Klebsiella pneumoniae]	46.4	2e-04	WP_227501303
Bacteroides heparinolyticus [CFB group bacteria]			
citrate (S <i>i</i>)-synthase [Bacteroides heparinolyticus]	63.0	5e-10	MCF0257894
Enterobacteriaceae bacterium TzEc052 [enterobacteria]			
citrate (S <i>i</i>)-synthase, partial [Enterobacteriaceae bacterium TzEc052]	63.0	8e-10	KAE9897179
citrate (S <i>i</i>)-synthase, partial [Enterobacteriaceae bacterium TzEc052]	63.0	8e-10	KAE9897545
Escherichia coli 908525 [enterobacteria]			
citrate (S <i>i</i>)-synthase, partial [Escherichia coli 908525]	63.0	8e-10	ESD70432
Escherichia coli O145:H28 [enterobacteria]			
citrate (S <i>i</i>)-synthase [Escherichia coli O145:H28]	63.0	8e-10	EJH5202848
Escherichia coli 3-105-05_S3_C2 [enterobacteria]			
citrate synthase family protein [Escherichia coli 3-105-05_S3_C2]	63.0	8e-10	KDT38988
Escherichia coli 3-475-03_S4_C1 [enterobacteria]			
citrate synthase family protein [Escherichia coli 3-475-03_S4_C1]	63.0	8e-10	KDT77254
Klebsiella oxytoca [enterobacteria]			
hypothetical protein [Klebsiella oxytoca]	60.4	3e-09	WP_266097662
Mycobacterium tuberculosis [high G+C Gram-positive bacteria]			
citrate (S <i>i</i>)-synthase [Mycobacterium tuberculosis]	60.4	3e-09	MBX4322326
Klebsiella variicola subsp. variicola [enterobacteria]			
hypothetical protein [Klebsiella variicola subsp. variicola]	60.4	3e-09	MCS5946155
Klebsiella pneumoniae subsp. pneumoniae [enterobacteria]			



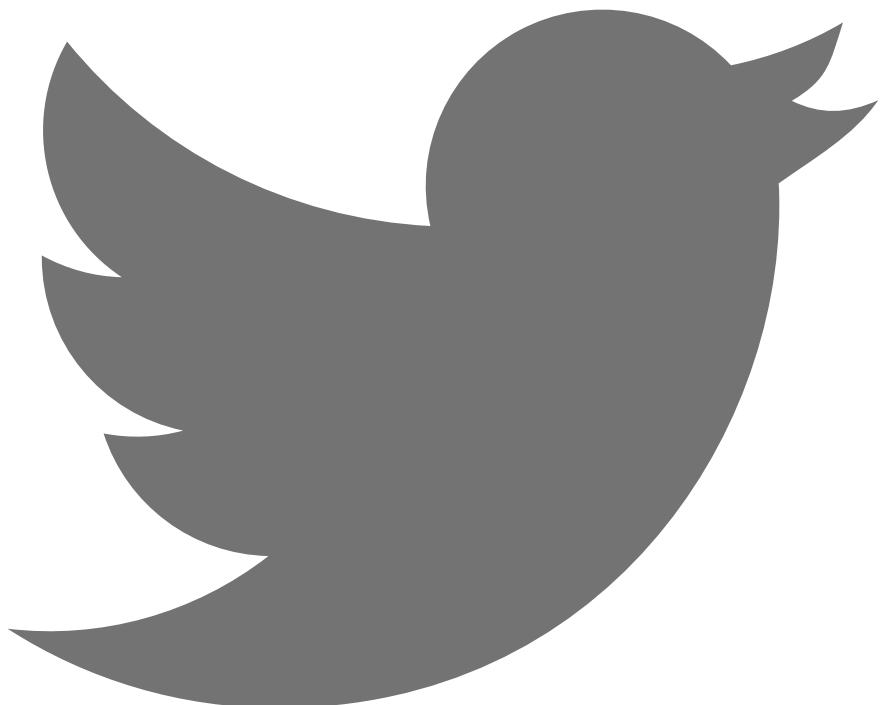
Description	Score	E value	Accession
hypothetical protein [Klebsiella pneumoniae subsp. pneumoniae]	60.4	3e-09	MCSS5961718
Salmonella enterica [enterobacteria]			
citrate/2-methylcitrate synthase, partial [Salmonella enterica]	57.9	2e-08	WP_072212905
citrate/2-methylcitrate synthase, partial [Salmonella enterica]	57.9	3e-08	WP_077951339
citrate (Si)-synthase [Salmonella enterica]	57.9	3e-08	EAM6650575
hypothetical protein [Salmonella enterica]	33.7	11	MCR2306724
hypothetical protein, partial [Salmonella enterica]	28.6	842	WP_261781019
Salmonella enterica subsp. salamae [enterobacteria]			
hypothetical protein [Salmonella enterica subsp. salamae]	57.9	3e-08	MJG42418
Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663 [enterobacteria]			
type II citrate synthase [Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663]	57.9	3e-08	ELL70676
Salmonella enterica subsp. enterica serovar Poona [enterobacteria]			
hypothetical protein C9F10_14870, partial [Salmonella enterica subsp. enterica serovar Poona]	57.9	3e-08	TGD36068
Gammaproteobacteria bacterium [g-proteobacteria]			
citrate (Si)-synthase [Gammaproteobacteria bacterium]	44.3	0.003	MCP4769382
Anaerobiospirillum thomasi [g-proteobacteria]			
Citrate synthase 1 [Anaerobiospirillum thomasi]	40.9	0.042	SPT78863
Shigella flexneri [enterobacteria]			
hypothetical protein [Shigella flexneri]	39.2	0.10	MCI6426824

Taxonomy

Taxonomy	Number of hits	Number of Organisms	Description
Bacteria	139	21	
. Gammaproteobacteria	137	19	
.. Enterobacteriaceae	135	17	
... Escherichia	106	6	
.... Escherichia coli	101	6	Escherichia coli hits
.... Escherichia coli DORA_A_5_14_21	1	1	Escherichia coli DORA_A_5_14_21 hits
.... Escherichia coli 908525	1	1	Escherichia coli 908525 hits
.... Escherichia coli O145:H28	1	1	Escherichia coli O145:H28 hits
.... Escherichia coli 3-105-05_S3_C2	1	1	Escherichia coli 3-105-05_S3_C2 hits
.... Escherichia coli 3-475-03_S4_C1	1	1	Escherichia coli 3-475-03_S4_C1 hits
... Shigella	4	2	
.... Shigella sonnei	3	1	Shigella sonnei hits
.... Shigella flexneri	1	1	Shigella flexneri hits
... Klebsiella	15	4	
.... Klebsiella pneumoniae	12	2	Klebsiella pneumoniae hits
.... Klebsiella pneumoniae subsp. pneumoniae	1	1	Klebsiella pneumoniae subsp. pneumoniae hits
.... Klebsiella oxytoca	1	1	Klebsiella oxytoca hits
.... Klebsiella variicola subsp. variicola	1	1	Klebsiella variicola subsp. variicola hits
... Enterobacteriaceae bacterium TzEc052	2	1	Enterobacteriaceae bacterium TzEc052 hits
... Salmonella	8	4	
.... Salmonella enterica	5	4	Salmonella enterica hits
.... Salmonella enterica subsp. salamae	1	1	Salmonella enterica subsp. salamae hits
.... Salmonella enterica subsp. enterica	2	2	
..... Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663	1	1	Salmonella enterica subsp. enterica serovar Enteritidis str. SE30663 hits
..... Salmonella enterica subsp. enterica serovar Poona	1	1	Salmonella enterica subsp. enterica serovar Poona hits
.. Gammaproteobacteria bacterium	1	1	Gammaproteobacteria bacterium hits
.. Anaerobiospirillum thomasi	1	1	Anaerobiospirillum thomasi hits
. Bacteroides heparinolyticus	1	1	Bacteroides heparinolyticus hits
. Mycobacterium tuberculosis	1	1	Mycobacterium tuberculosis hits

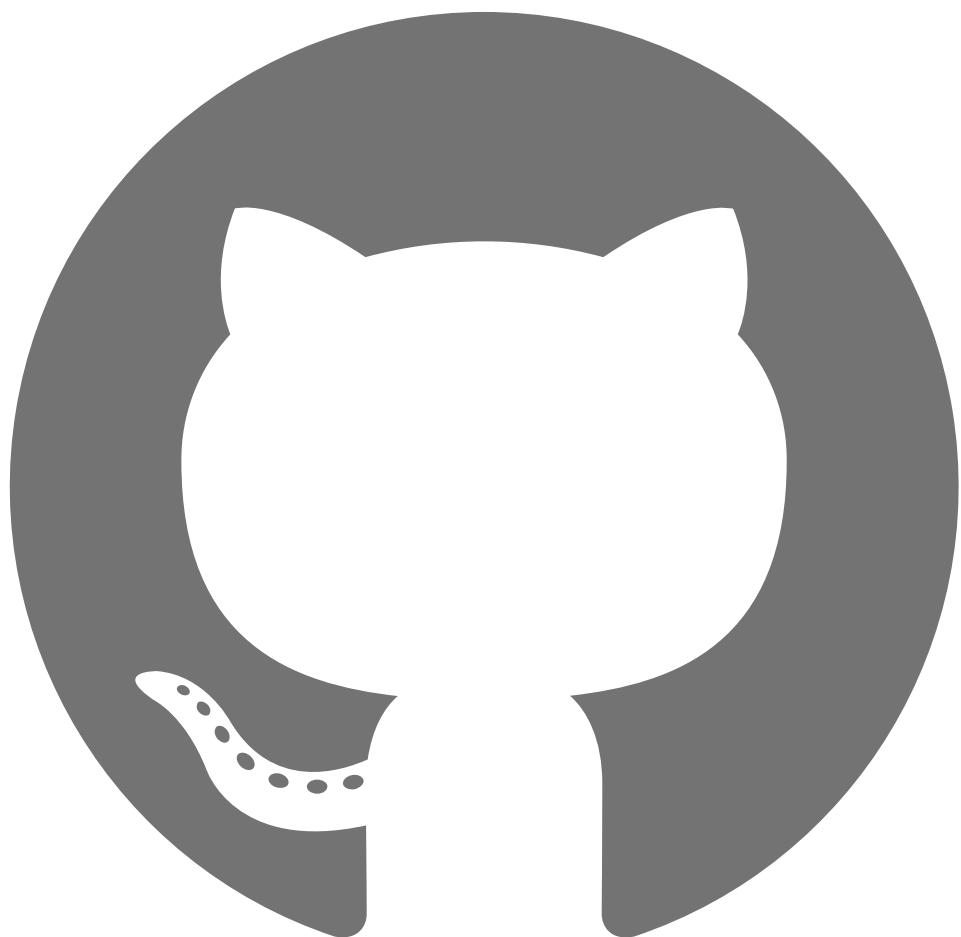
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