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BLAST® » [blastp suite](#) » results for RID-UWR232KT013

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

Job Title	Protein Sequence ...
RID	UWR232KT013 Search expires on 01-23 19:14 pm
Program	BLASTP
Database	nr
Query ID	Id Query_5679077
Description	unnamed protein product ...
Molecule type	amino acid
Query Length	17

Compare these results against the new Clustered nr database



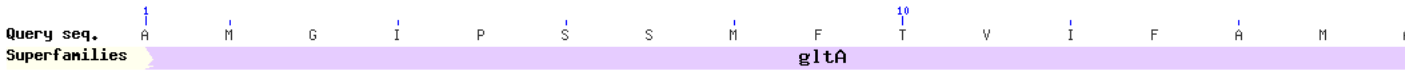
Descriptions

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
citrate synthase (EC 4.1.3.7) [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-09	100.00%	29	AAA23902.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	6e-09	100.00%	50	WP_284344613.1
citrate (Si)-synthase [Salmonella enterica]	Salmonella enterica	59.6	59.6	100%	7e-09	100.00%	56	EAM6650575.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	8e-09	100.00%	58	MDU2996401.1
hypothetical protein K26_27600 [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	9e-09	100.00%	63	KTG66061.1
citrate synthase [Salmonella enterica subsp. enterica]	Salmonella enterica subsp. enterica	59.6	59.6	100%	9e-09	100.00%	63	VEA57131.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	9e-09	100.00%	64	WP_301952173.1
citrate (Si)-synthase [Enterobacter hormaechei subsp. steigerwaltii]	Enterobacter hormaechei subsp. steigerwaltii	59.6	59.6	100%	9e-09	100.00%	64	MCU2775335.1
citrate (Si)-synthase [Bacteroides heparinolyticus]	Bacteroides heparinolyticus	59.6	59.6	100%	9e-09	100.00%	64	MCF0257894.1
type II citrate synthase [Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083]	Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083	59.6	59.6	100%	1e-08	100.00%	65	ESJ47493.1
TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	66	HCN7185207.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	67	WP_284693070.1
hypothetical protein L247_31395 [Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253]	Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253	59.6	59.6	100%	1e-08	100.00%	68	KAF0661692.1
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Montevideo]	Salmonella enterica subsp. enterica serovar Montevideo	59.6	59.6	100%	1e-08	100.00%	69	MDI5535437.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	70	MDM1725853.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	70	MDM1725847.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	71	WP_284696415.1
TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	72	HCN8565948.1
citrate/2-methylcitrate synthase [Salmonella enterica]	Salmonella enterica	59.6	59.6	100%	1e-08	100.00%	73	WP_290367269.1
hypothetical protein K16_05185 [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	1e-08	100.00%	74	KTG78194.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	75	WP_284737001.1
citrate (Si)-synthase [Enterobacter kobei]	Enterobacter kobei	59.6	59.6	100%	1e-08	100.00%	75	MCL7703913.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	75	WP_316045729.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	75	WP_284737003.1
TPA: citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Infantis]	Salmonella enterica subsp. enterica serovar Infantis	59.6	59.6	100%	1e-08	100.00%	76	HCI9980600.1
citrate (Si)-synthase [Acinetobacter baumannii]	Acinetobacter baumannii	59.6	59.6	100%	1e-08	100.00%	76	MDT1848456.1
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	1e-08	100.00%	76	WP_309301862.1
citrate/2-methylcitrate synthase [Klebsiella michiganensis]	Klebsiella michiganensis	59.6	59.6	100%	1e-08	100.00%	77	WP_308298152.1
citrate/2-methylcitrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	77	WP_289709520.1
citrate (Si)-synthase [Salmonella enterica]	Salmonella enterica	59.6	59.6	100%	1e-08	100.00%	78	MDJ4914545.1
citrate/2-methylcitrate synthase [Enterobacter sp.]	Enterobacter sp.	59.6	59.6	100%	1e-08	100.00%	78	MDU2784905.1
citrate (Si)-synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	78	MCO0173501.1
citrate synthase [Salmonella enterica subsp. enterica]	Salmonella enterica subsp. enterica	59.6	59.6	100%	1e-08	100.00%	78	VEA19626.1
citrate (Si)-synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	1e-08	100.00%	78	MCL7660528.1
citrate synthase [Pantoea sp. B_10]	Pantoea sp. B_10	59.6	59.6	100%	1e-08	100.00%	496	WP_150060151.1
citrate synthase [Pantoea sp. M_5]	Pantoea sp. M_5	59.6	119	100%	1e-08	100.00%	495	WP_150044220.1
type II citrate synthase [Shigella sonnei]	Shigella sonnei	59.6	59.6	100%	1e-08	100.00%	450	CSQ67231.1
GltA [Pantoea ananatis LMG 20103]	Pantoea ananatis LMG 20103	59.6	59.6	100%	1e-08	100.00%	449	ADD76337.1
type II citrate synthase [Pantoea ananatis BRT98]	Pantoea ananatis BRT98	59.6	59.6	100%	1e-08	100.00%	449	PKC44078.1
citrate synthase [Shigella sonnei]	Shigella sonnei	59.6	59.6	100%	1e-08	100.00%	448	WP_052962268.1
citrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	447	MDZ6952340.1
Citrate synthase (si) [Klebsiella pneumoniae IS22]	Klebsiella pneumoniae IS22	59.6	59.6	100%	1e-08	100.00%	445	CDK76685.1
Citrate synthase [Salmonella enterica subsp. enterica serovar Minnesota str. A4-603]	Salmonella enterica subsp. enterica serovar Minnesota str. A4-603	59.6	59.6	100%	1e-08	100.00%	440	EHC72418.1
citrate (Si)-synthase [Hafnia alvei ATCC 51873]	Hafnia alvei ATCC 51873	59.6	59.6	100%	1e-08	100.00%	439	EHM38178.1
citrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	439	EHU6881247.1
Citrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	1e-08	100.00%	437	CAF2924652.1
citrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	433	WP_249532837.1

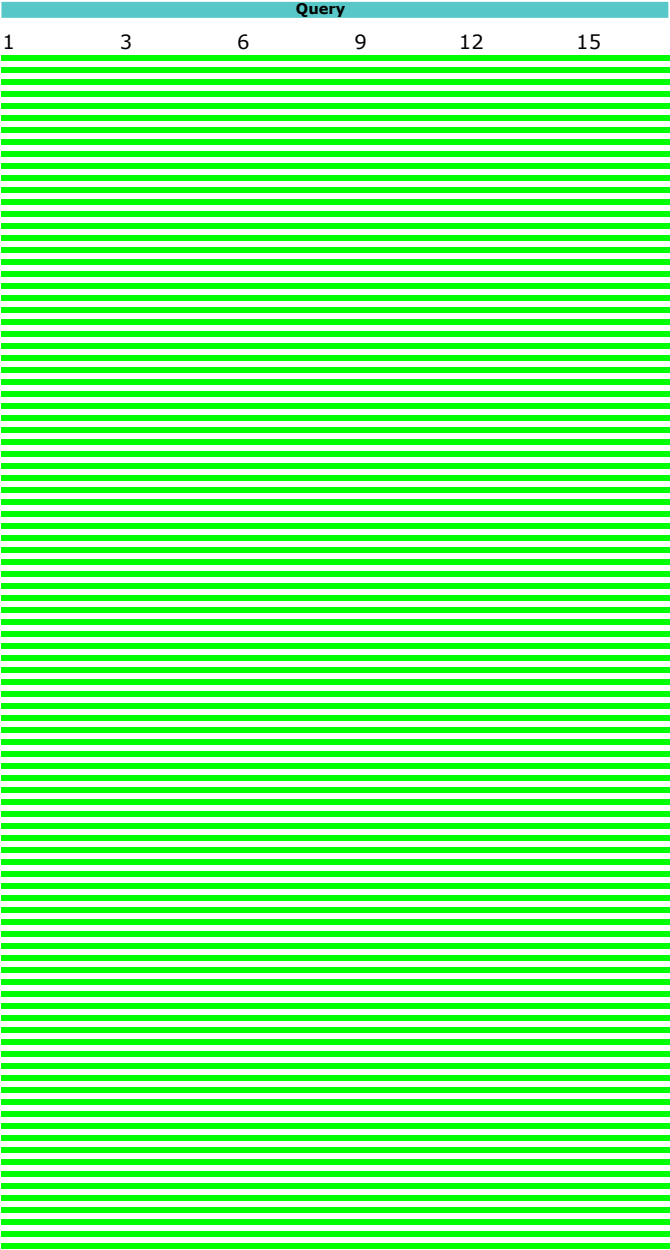
Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
citrate synthase [Pantoea sp. QMID1]	Pantoea sp. QMID1	59.6	59.6	100%	1e-08	100.00%	431	GME35117.1
citrate synthase [Rouxiiella badensis]	Rouxiiella badensis	59.6	59.6	100%	1e-08	100.00%	431	WP_017493927.1
citrate synthase [Shigella flexneri]	Shigella flexneri	59.6	59.6	100%	1e-08	100.00%	430	WP_281856488.1
type II citrate synthase [Salmonella enterica subsp. enterica serovar Heidelberg]	Salmonella enterica subsp. enterica serovar Heidelberg	59.6	59.6	100%	1e-08	100.00%	430	KNN64810.1
citrate synthase [Salmonella enterica subsp. enterica serovar Heidelberg]	Salmonella enterica subsp. enterica serovar Heidelberg	59.6	59.6	100%	1e-08	100.00%	430	ECS4897850.1
citrate synthase [Pantoea]	Pantoea	59.6	59.6	100%	1e-08	100.00%	429	WP_126688556.1
citrate synthase [Winslowiella toletana]	Winslowiella toletana	59.6	59.6	100%	1e-08	100.00%	429	WP_017799198.1
Citrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	429	VCY49824.1
TPA: citrate (Si)-synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	429	HDV1539492.1
citrate synthase [Buttiauxella noackiae]	Buttiauxella noackiae	59.6	59.6	100%	1e-08	100.00%	429	WP_064554951.1
Citrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	429	CAC9163158.1
citrate synthase [Pantoea]	Pantoea	59.6	59.6	100%	1e-08	100.00%	429	WP_120451463.1
citrate synthase [Buttiauxella noackiae]	Buttiauxella noackiae	59.6	59.6	100%	1e-08	100.00%	429	WP_034458778.1
citrate synthase [Escherichia coli]	Escherichia coli	59.6	59.6	100%	1e-08	100.00%	429	MDW3298543.1
citrate synthase [Mixta calida]	Mixta calida	59.6	59.6	100%	1e-08	100.00%	429	MDU5192936.1
citrate synthase [Winslowiella arboricola]	Winslowiella arboricola	59.6	59.6	100%	1e-08	100.00%	429	WP_267143480.1
citrate synthase [Kosakonia quasiasacchari]	Kosakonia quasiasacchari	59.6	59.6	100%	1e-08	100.00%	428	WP_131406303.1
citrate synthase [Kosakonia sp. H02]	Kosakonia sp. H02	59.6	59.6	100%	1e-08	100.00%	428	WLI78337.1
citrate synthase [Atlantibacter hermannii]	Atlantibacter hermannii	59.6	59.6	100%	1e-08	100.00%	428	WP_313478108.1
citrate synthase [Candidatus Symbiopectobacterium sp.]	Candidatus Symbiopectobacterium sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_291970910.1
citrate synthase [Pectobacterium versatile]	Pectobacterium versatile	59.6	59.6	100%	1e-08	100.00%	428	WP_233980192.1
citrate synthase [Symbiopectobacterium purcellii]	Symbiopectobacterium purcellii	59.6	59.6	100%	1e-08	100.00%	428	WP_222160025.1
citrate synthase [Pseudoscherichia sp.]	Pseudoscherichia sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_312211587.1
TPA: citrate (Si)-synthase [Enterobacter sp.]	Enterobacter sp.	59.6	59.6	100%	1e-08	100.00%	428	HCH38492.1
citrate synthase [Enterobacter ludwigii]	Enterobacter ludwigii	59.6	59.6	100%	1e-08	100.00%	428	WP_079231267.1
citrate synthase [Raoultella sp. BIGb0138]	Raoultella sp. BIGb0138	59.6	59.6	100%	1e-08	100.00%	428	WP_132728053.1
citrate synthase [Enterobacteriaceae]	Enterobacteriaceae	59.6	59.6	100%	1e-08	100.00%	428	WP_222889910.1
citrate synthase [Buttiauxella izardii]	Buttiauxella izardii	59.6	59.6	100%	1e-08	100.00%	428	WP_120066216.1
citrate synthase [Pectobacterium colocasium]	Pectobacterium colocasium	59.6	59.6	100%	1e-08	100.00%	428	WP_225087359.1
citrate synthase [Ewingella americana]	Ewingella americana	59.6	59.6	100%	1e-08	100.00%	428	WP_140470475.1
citrate synthase [Pectobacterium versatile]	Pectobacterium versatile	59.6	59.6	100%	1e-08	100.00%	428	WP_130623152.1
TPA: citrate (Si)-synthase [Leclercia adecarboxylata]	Leclercia adecarboxylata	59.6	59.6	100%	1e-08	100.00%	428	HBU95599.1
citrate synthase [Buttiauxella warmboldiae]	Buttiauxella warmboldiae	59.6	59.6	100%	1e-08	100.00%	428	WP_124022675.1
citrate synthase [Pectobacterium sp. F1-1]	Pectobacterium sp. F1-1	59.6	59.6	100%	1e-08	100.00%	428	WP_263059126.1
citrate synthase [Buttiauxella sp.]	Buttiauxella sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_324121213.1
citrate synthase [unidentified bacterial endosymbiont]	unidentified bacterial endosymbiont	59.6	59.6	100%	1e-08	100.00%	428	WP_253378118.1
citrate synthase [Pseudoscherichia sp.]	Pseudoscherichia sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_312456457.1
citrate synthase [Buttiauxella sp. B2]	Buttiauxella sp. B2	59.6	59.6	100%	1e-08	100.00%	428	WP_139881770.1
citrate synthase [Samsonia erythrinae]	Samsonia erythrinae	59.6	59.6	100%	1e-08	100.00%	428	WP_132452732.1
citrate synthase [Superficieibacter sp.]	Superficieibacter sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_312949563.1
citrate synthase [Atlantibacter sp.]	Atlantibacter sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_165462961.1
citrate synthase [Pseudoscherichia sp.]	Pseudoscherichia sp.	59.6	59.6	100%	1e-08	100.00%	428	WP_312415508.1
citrate synthase [Winslowiella toletana]	Winslowiella toletana	59.6	59.6	100%	1e-08	100.00%	428	WP_313856475.1
citrate synthase [Cronobacter dublinensis]	Cronobacter dublinensis	59.6	59.6	100%	1e-08	100.00%	428	WP_105635862.1
citrate synthase [Kosakonia sacchari]	Kosakonia sacchari	59.6	59.6	100%	1e-08	100.00%	428	WP_305736724.1
citrate synthase [Entomohabitans teleogrylli]	Entomohabitans teleogrylli	59.6	59.6	100%	1e-08	100.00%	428	WP_058913582.1
citrate synthase [Pectobacterium sp. PL64]	Pectobacterium sp. PL64	59.6	59.6	100%	1e-08	100.00%	428	WP_240584825.1
citrate synthase [Trabulsiella odontotermis]	Trabulsiella odontotermis	59.6	59.6	100%	1e-08	100.00%	428	WP_283280384.1
citrate synthase [Pectobacterium parvum]	Pectobacterium parvum	59.6	59.6	100%	1e-08	100.00%	428	WP_230242980.1
citrate synthase [Klebsiella pneumoniae]	Klebsiella pneumoniae	59.6	59.6	100%	1e-08	100.00%	428	WP_109022665.1
citrate synthase [Enterobacter sp. Colony194]	Enterobacter sp. Colony194	59.6	59.6	100%	1e-08	100.00%	428	WP_220266144.1

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
citrate synthase [Leclercia adecarboxylata]	Leclercia adecarboxylata	59.6	59.6	100%	1e-08	100.00%	428	WP_230431293.1
citrate synthase [unclassified Enterobacter]	unclassified Enterobacter	59.6	59.6	100%	1e-08	100.00%	428	WP_072567836.1

Graphic Summary



Distribution of the top 101 Blast Hits on 100 subject sequences



Alignments

Alignment view Pairwise ☒ CDS feature

citrate synthase (EC 4.1.3.7), partial [Escherichia coli]
Sequence ID: **AAA23902.1** Length: 29 Number of Matches: 1
Range 1: 13 to 29

Score	Expect	Identities	Positives	Gaps	Frame
59.6 bits(133)	1e-09()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	AMGIPSSMFTVIFAMAR	17			
Sbjct 13	AMGIPSSMFTVIFAMAR	29			

citrate/2-methylcitrate synthase, partial [Escherichia coli]
Sequence ID: **WP_284344613.1** Length: 50 Number of Matches: 1

Score	Expect	Identities	Positives	Gaps	Frame
59.6 bits(133)	6e-09()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	AMGIPSSMFTVIFAMAR	17			
Sbjct 7	AMGIPSSMFTVIFAMAR	23			

citrate (Si)-synthase [Salmonella enterica]
Sequence ID: **EAM6650575.1** Length: 56 Number of Matches: 1
Range 1: 1 to 17

Score	Expect	Identities	Positives	Gaps	Frame
59.6 bits(133)	7e-09()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	AMGIPSSMFTVIFAMAR	17			
Sbjct 1	AMGIPSSMFTVIFAMAR	17			

citrate/2-methylcitrate synthase [Klebsiella pneumoniae]
Sequence ID: **MDU2996401.1** Length: 58 Number of Matches: 1
Range 1: 3 to 19

Score	Expect	Identities	Positives	Gaps	Frame
59.6 bits(133)	8e-09()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	AMGIPSSMFTVIFAMAR	17			
Sbjct 3	AMGIPSSMFTVIFAMAR	19			

hypothetical protein K26_27600, partial [Klebsiella pneumoniae]
Sequence ID: **KTG66061.1** Length: 63 Number of Matches: 1
Range 1: 8 to 24

Score	Expect	Identities	Positives	Gaps	Frame
59.6 bits(133)	9e-09()	17/17(100%)	17/17(100%)	0/17(0%)	
Query 1	AMGIPSSMFTVIFAMAR	17			
Sbjct 8	AMGIPSSMFTVIFAMAR	24			

Taxonomy

Reports

◦ Lineage

Organism	Blast Name	Score	Number of Hits	Description
Bacteria	bacteria		157	
.Gammaproteobacteria	g-proteobacteria		155	
..Enterobacterales	enterobacteria		154	
...Enterobacteriaceae	enterobacteria		1	
....Escherichia coli	enterobacteria	59.6	29	Escherichia coli hits
....Salmonella enterica	enterobacteria	59.6	3	Salmonella enterica hits
....Klebsiella pneumoniae	enterobacteria	59.6	11	Klebsiella pneumoniae hits
....Salmonella enterica subsp. enterica	enterobacteria	59.6	2	Salmonella enterica subsp. enterica hits
....Enterobacter hormaechei subsp. steigerwaltii	enterobacteria	59.6	1	Enterobacter hormaechei subsp. steigerwaltii hits
....Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083	enterobacteria	59.6	1	Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083 hits
....Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253	enterobacteria	59.6	1	Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253 hits
....Salmonella enterica subsp. enterica serovar Montevideo	enterobacteria	59.6	1	Salmonella enterica subsp. enterica serovar Montevideo hits
....Salmonella enterica subsp. enterica serovar 4,[5],12:i:-	enterobacteria	59.6	1	Salmonella enterica subsp. enterica serovar 4,[5],12:i:- hits
....Enterobacter kobei	enterobacteria	59.6	1	Enterobacter kobei hits
....Salmonella enterica subsp. enterica serovar Infantis	enterobacteria	59.6	1	Salmonella enterica subsp. enterica serovar Infantis hits
....Klebsiella michiganensis	enterobacteria	59.6	2	Klebsiella michiganensis hits
....Enterobacter sp.	enterobacteria	59.6	2	Enterobacter sp. hits
....Shigella sonnei	enterobacteria	59.6	3	Shigella sonnei hits
....Klebsiella pneumoniae IS22	enterobacteria	59.6	1	Klebsiella pneumoniae IS22 hits
....Salmonella enterica subsp. enterica serovar Minnesota str. A4-603	enterobacteria	59.6	1	Salmonella enterica subsp. enterica serovar Minnesota str. A4-603 hits
....Shigella flexneri	enterobacteria	59.6	2	Shigella flexneri hits
....Salmonella enterica subsp. enterica serovar Heidelberg	enterobacteria	59.6	2	Salmonella enterica subsp. enterica serovar Heidelberg hits
....Buttiauxella noackiae	enterobacteria	59.6	3	Buttiauxella noackiae hits
....Buttiauxella noackiae ATCC 51607	enterobacteria	59.6	1	Buttiauxella noackiae ATCC 51607 hits

....Kosakonia quasisacchari	enterobacteria	59.6	2	Kosakonia quasisacchari hits
....Kosakonia sp. H02	enterobacteria	59.6	1	Kosakonia sp. H02 hits
....Atlantibacter hermannii	enterobacteria	59.6	1	Atlantibacter hermannii hits
....Candidatus Symbiopectobacterium sp.	enterobacteria	59.6	1	Candidatus Symbiopectobacterium sp. hits
....Symbiopectobacterium purcellii	enterobacteria	59.6	2	Symbiopectobacterium purcellii hits
....Pseudescherichia sp.	enterobacteria	59.6	3	Pseudescherichia sp. hits
....Enterobacter ludwigii	enterobacteria	59.6	2	Enterobacter ludwigii hits
....Raoultella sp. BIGb0138	enterobacteria	59.6	2	Raoultella sp. BIGb0138 hits
....Buttiauxella izardii	enterobacteria	59.6	2	Buttiauxella izardii hits
....Leclercia adecarboxylata	enterobacteria	59.6	3	Leclercia adecarboxylata hits
....Buttiauxella warmboldiae	enterobacteria	59.6	2	Buttiauxella warmboldiae hits
....Buttiauxella sp.	enterobacteria	59.6	1	Buttiauxella sp. hits
....Buttiauxella sp. B2	enterobacteria	59.6	2	Buttiauxella sp. B2 hits
....Superficieibacter sp.	enterobacteria	59.6	1	Superficieibacter sp. hits
....Atlantibacter sp.	enterobacteria	59.6	1	Atlantibacter sp. hits
....Cronobacter dublinensis	enterobacteria	59.6	1	Cronobacter dublinensis hits
....Kosakonia sacchari	enterobacteria	59.6	2	Kosakonia sacchari hits
....Entomohabitans teleogrylli	enterobacteria	59.6	1	Entomohabitans teleogrylli hits
....Trabulsiella odontotermis	enterobacteria	59.6	2	Trabulsiella odontotermis hits
....Enterobacter sp. Colony194	enterobacteria	59.6	1	Enterobacter sp. Colony194 hits
....unclassified Enterobacter	enterobacteria	59.6	1	unclassified Enterobacter hits
....Enterobacter sp. PGRG2	enterobacteria	59.6	1	Enterobacter sp. PGRG2 hits
...Pantoea sp. B_10	enterobacteria	59.6	2	Pantoea sp. B_10 hits
...Pantoea sp. M_5	enterobacteria	59.6	2	Pantoea sp. M_5 hits
...Pantoea ananatis LMG 20103	enterobacteria	59.6	1	Pantoea ananatis LMG 20103 hits
...Pantoea ananatis 15320	enterobacteria	59.6	1	Pantoea ananatis 15320 hits
...Pantoea ananatis	enterobacteria	59.6	2	Pantoea ananatis hits
...Pantoea ananatis AJ13355	enterobacteria	59.6	1	Pantoea ananatis AJ13355 hits
...Pantoea ananatis BRT98	enterobacteria	59.6	1	Pantoea ananatis BRT98 hits
...Hafnia alvei ATCC 51873	enterobacteria	59.6	1	Hafnia alvei ATCC 51873 hits
...Pantoea sp. QMID1	enterobacteria	59.6	1	Pantoea sp. QMID1 hits
...Rouxiella badensis	enterobacteria	59.6	6	Rouxiella badensis hits
...Pantoea	enterobacteria	59.6	2	Pantoea hits
...Pantoea sp. ACRSB	enterobacteria	59.6	1	Pantoea sp. ACRSB hits
...Pantoea sp. YU22	enterobacteria	59.6	1	Pantoea sp. YU22 hits
...Winslowiella toletana	enterobacteria	59.6	4	Winslowiella toletana hits
...Pantoea sp.	enterobacteria	59.6	1	Pantoea sp. hits
...Pantoea piersonii	enterobacteria	59.6	4	Pantoea piersonii hits
...Mixta calida	enterobacteria	59.6	1	Mixta calida hits
...Winslowiella arboricola	enterobacteria	59.6	3	Winslowiella arboricola hits
...Pectobacterium versatile	enterobacteria	59.6	3	Pectobacterium versatile hits
...Enterobacteriaceae	enterobacteria	59.6	1	Enterobacteriaceae hits
...Pectobacterium colocasium	enterobacteria	59.6	1	Pectobacterium colocasium hits
...Ewingella americana	enterobacteria	59.6	2	Ewingella americana hits
...Pectobacterium sp. F1-1	enterobacteria	59.6	2	Pectobacterium sp. F1-1 hits
...Samsonia erythrinae	enterobacteria	59.6	2	Samsonia erythrinae hits
...Pectobacterium sp. PL64	enterobacteria	59.6	2	Pectobacterium sp. PL64 hits
...Pectobacterium parvum	enterobacteria	59.6	2	Pectobacterium parvum hits
..Acinetobacter baumannii	g-proteobacteria	59.6	1	Acinetobacter baumannii hits
..Bacteroides heparinolyticus	CFB group bacteria	59.6	1	Bacteroides heparinolyticus hits
..unidentified bacterial endosymbiont	bacteria	59.6	1	unidentified bacterial endosymbiont hits

o Organism

Description	Score	E value	Accession
Escherichia coli [enterobacteria]			
citrate synthase (EC 4.1.3.7),.partial [Escherichia coli]	59.6	1e-09	AAA23902
citrate/2-methylcitrate synthase,.partial [Escherichia coli]	59.6	6e-09	WP_284344613
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	HCN7185207
citrate/2-methylcitrate synthase,.partial [Escherichia coli]	59.6	1e-08	WP_284693070
citrate (Si)-synthase,.partial [Escherichia coli]	59.6	1e-08	KAE9718461
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MDM1725853
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MDM1725847
citrate/2-methylcitrate synthase,.partial [Escherichia coli]	59.6	1e-08	WP_284696415

Description	Score	E value	Accession
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MBF7986016
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MWM20870
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MWR75286
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MWT26135
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MXJ13823
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	HCN8565948
citrate/2-methylcitrate synthase, partial [Escherichia coli]	59.6	1e-08	WP_284737001
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MBA2037725
citrate/2-methylcitrate synthase, partial [Escherichia coli]	59.6	1e-08	WP_316045729
citrate/2-methylcitrate synthase, partial [Escherichia coli]	59.6	1e-08	WP_284737003
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MBA2041438
citrate/2-methylcitrate synthase, partial [Escherichia coli]	59.6	1e-08	WP_289709520
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MBA1884166
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	MCO0173501
citrate synthase [Escherichia coli]	59.6	1e-08	MDZ6952340
citrate synthase [Escherichia coli]	59.6	1e-08	EHU6881247
citrate synthase [Escherichia coli]	59.6	1e-08	WP_249532837
Citrate synthase [Escherichia coli]	59.6	1e-08	VCY49824
citrate (Si)-synthase [Escherichia coli]	59.6	1e-08	HDV1539492
Citrate synthase [Escherichia coli]	59.6	1e-08	CAC9163158
citrate synthase [Escherichia coli]	59.6	1e-08	MDW3298543
Salmonella enterica [enterobacteria]			
citrate (Si)-synthase [Salmonella enterica]	59.6	7e-09	EAM6650575
citrate/2-methylcitrate synthase, partial [Salmonella enterica]	59.6	1e-08	WP_290367269
citrate (Si)-synthase [Salmonella enterica]	59.6	1e-08	MDJ4914545
Klebsiella pneumoniae [enterobacteria]			
citrate/2-methylcitrate synthase [Klebsiella pneumoniae]	59.6	8e-09	MDU2996401
hypothetical protein K26_27600, partial [Klebsiella pneumoniae]	59.6	9e-09	KTG66061
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]	59.6	9e-09	WP_301952173
citrate (Si)-synthase [Klebsiella pneumoniae]	59.6	9e-09	NDR82707
hypothetical protein K16_05185, partial [Klebsiella pneumoniae]	59.6	1e-08	KTG78194
citrate/2-methylcitrate synthase, partial [Klebsiella pneumoniae]	59.6	1e-08	WP_309301862
citrate (Si)-synthase, partial [Klebsiella pneumoniae]	59.6	1e-08	RBN11767
citrate (Si)-synthase [Klebsiella pneumoniae]	59.6	1e-08	MCL7660528
Citrate synthase, partial [Klebsiella pneumoniae]	59.6	1e-08	CAF2924652
Citrate synthase, partial [Klebsiella pneumoniae]	59.6	1e-08	CAH6604484
citrate synthase [Klebsiella pneumoniae]	59.6	1e-08	WP_109022665
Salmonella enterica subsp. enterica [enterobacteria]			
citrate synthase [Salmonella enterica subsp. enterica]	59.6	9e-09	VEA57131
citrate synthase [Salmonella enterica subsp. enterica]	59.6	1e-08	VEA19626
Enterobacter hormaechei subsp. steigerwaltii [enterobacteria]			
citrate (Si)-synthase [Enterobacter hormaechei subsp. steigerwaltii]	59.6	9e-09	MCU2775335
Bacteroides heparinolyticus [CFB group bacteria]			
citrate (Si)-synthase [Bacteroides heparinolyticus]	59.6	9e-09	MCF0257894
Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083 [enterobacteria]			
type II citrate synthase, partial [Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083]	59.6	1e-08	ESJ47493
Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253 [enterobacteria]			
hypothetical protein L247_31395, partial [Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253]	59.6	1e-08	KAF0661692
Salmonella enterica subsp. enterica serovar Montevideo [enterobacteria]			
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Montevideo]	59.6	1e-08	MDI5535437
Salmonella enterica subsp. enterica serovar 4,[5],12:i:- [enterobacteria]			
type II citrate synthase, partial [Salmonella enterica subsp. enterica serovar 4,[5],12:i:-]	59.6	1e-08	KUA64007
Enterobacter kobei [enterobacteria]			
citrate (Si)-synthase [Enterobacter kobei]	59.6	1e-08	MCL7703913
Salmonella enterica subsp. enterica serovar Infantis [enterobacteria]			
citrate (Si)-synthase [Salmonella enterica subsp. enterica serovar Infantis]	59.6	1e-08	HCI9980600
Acinetobacter baumannii [g-proteobacteria]			
citrate (Si)-synthase [Acinetobacter baumannii]	59.6	1e-08	MDT1848456
Klebsiella michiganensis [enterobacteria]			
citrate/2-methylcitrate synthase, partial [Klebsiella michiganensis]	59.6	1e-08	WP_308298152
citrate (Si)-synthase, partial [Klebsiella michiganensis]	59.6	1e-08	PLN97258
Enterobacter sp. [enterobacteria]			

Description	Score	E value	Accession
citrate/2-methylcitrate synthase [Enterobacter sp.]	59.6	1e-08	MDU2784905
citrate (Si)-synthase [Enterobacter sp.]	59.6	1e-08	HCH38492
Pantoea sp. B_10 [enterobacteria]			
citrate synthase [Pantoea sp. B_10]	59.6	1e-08	WP_150060151
citrate (Si)-synthase [Pantoea sp. B_10]	59.6	1e-08	KAA6108663
Pantoea sp. M_5 [enterobacteria]			
citrate synthase [Pantoea sp. M_5]	59.6	1e-08	WP_150044220
citrate synthase [Pantoea sp. M_5]	59.6	1e-08	KAA5993256
Shigella sonnei [enterobacteria]			
type II citrate synthase [Shigella sonnei]	59.6	1e-08	CSQ67231
citrate synthase [Shigella sonnei]	59.6	1e-08	WP_052962268
type II citrate synthase [Shigella sonnei]	59.6	1e-08	CSQ50521
Pantoea ananatis LMG 20103 [enterobacteria]			
GltA [Pantoea ananatis LMG 20103]	59.6	1e-08	ADD76337
Pantoea ananatis 15320 [enterobacteria]			
type II citrate synthase [Pantoea ananatis 15320]	59.6	1e-08	PKC39322
Pantoea ananatis [enterobacteria]			
Citrate synthase [Pantoea ananatis]	59.6	1e-08	CRH28639
Citrate synthase [Pantoea ananatis]	59.6	1e-08	CRH33056
Pantoea ananatis AJ13355 [enterobacteria]			
citrate synthase GltA [Pantoea ananatis AJ13355]	59.6	1e-08	BAK10570
Pantoea ananatis BRT98 [enterobacteria]			
type II citrate synthase [Pantoea ananatis BRT98]	59.6	1e-08	PKC44078
Klebsiella pneumoniae IS22 [enterobacteria]			
Citrate synthase (si) [Klebsiella pneumoniae IS22]	59.6	1e-08	CDK76685
Salmonella enterica subsp. enterica serovar Minnesota str. A4-603 [enterobacteria]			
Citrate synthase [Salmonella enterica subsp. enterica serovar Minnesota str. A4-603]	59.6	1e-08	EHC72418
Hafnia alvei ATCC 51873 [enterobacteria]			
citrate (Si)-synthase [Hafnia alvei ATCC 51873]	59.6	1e-08	EHM38178
Pantoea sp. QMID1 [enterobacteria]			
citrate synthase [Pantoea sp. QMID1]	59.6	1e-08	GME35117
Rouxiella badensis [enterobacteria]			
citrate synthase [Rouxiella badensis]	59.6	1e-08	WP_017493927
citrate synthase [Rouxiella badensis]	59.6	1e-08	MCC3702339
citrate synthase [Rouxiella badensis]	59.6	1e-08	MCC3717345
citrate synthase [Rouxiella badensis]	59.6	1e-08	MCC3728441
citrate synthase [Rouxiella badensis]	59.6	1e-08	MCC3732345
citrate synthase [Rouxiella badensis]	59.6	1e-08	MCC3740185
Shigella flexneri [enterobacteria]			
citrate synthase [Shigella flexneri]	59.6	1e-08	WP_281856488
citrate synthase [Shigella flexneri]	59.6	1e-08	GLG66263
Salmonella enterica subsp. enterica serovar Heidelberg [enterobacteria]			
type II citrate synthase [Salmonella enterica subsp. enterica serovar Heidelberg]	59.6	1e-08	KNN64810
citrate synthase [Salmonella enterica subsp. enterica serovar Heidelberg]	59.6	1e-08	ECS4897850
Pantoea [enterobacteria]			
MULTISPECIES: citrate synthase [Pantoea]	59.6	1e-08	WP_126688556
MULTISPECIES: citrate synthase [Pantoea]	59.6	1e-08	WP_120451463
Pantoea sp. ACRSB [enterobacteria]			
citrate synthase [Pantoea sp. ACRSB]	59.6	1e-08	MCG7387777
Pantoea sp. YU22 [enterobacteria]			
citrate synthase [Pantoea sp. YU22]	59.6	1e-08	RTY59677
Winslowiella toletana [enterobacteria]			
citrate synthase [Winslowiella toletana]	59.6	1e-08	WP_017799198
citrate synthase [Winslowiella toletana]	59.6	1e-08	MBP2170377
citrate synthase [Winslowiella toletana]	59.6	1e-08	WP_313856475
citrate synthase [Winslowiella toletana]	59.6	1e-08	WNN45637
Buttiauxella noackiae [enterobacteria]			
citrate synthase [Buttiauxella noackiae]	59.6	1e-08	WP_064554951
citrate synthase [Buttiauxella noackiae]	59.6	1e-08	WP_034458778
citrate synthase [Buttiauxella noackiae]	59.6	1e-08	MCA1922834
Buttiauxella noackiae ATCC 51607 [enterobacteria]			
citrate (Si)-synthase [Buttiauxella noackiae ATCC 51607]	59.6	1e-08	OAT17430

Description	Score	E value	Accession
Pantoea sp. [enterobacteria]			
citrate synthase [Pantoea sp.]	59.6	1e-08	MDU6432426
Pantoea piersonii [enterobacteria]			
citrate synthase [Pantoea piersonii]	59.6	1e-08	MBZ6385798
citrate synthase [Pantoea piersonii]	59.6	1e-08	MBZ6401231
citrate synthase [Pantoea piersonii]	59.6	1e-08	MBZ6409495
citrate synthase [Pantoea piersonii]	59.6	1e-08	MBZ6427925
Mixta calida [enterobacteria]			
citrate synthase [Mixta calida]	59.6	1e-08	MDU5192936
Winslowiella arboricola [enterobacteria]			
citrate synthase [Winslowiella arboricola]	59.6	1e-08	WP_267143480
citrate synthase [Winslowiella arboricola]	59.6	1e-08	MCU5774197
citrate synthase [Winslowiella arboricola]	59.6	1e-08	MCU5776870
Kosakonia quasisacchari [enterobacteria]			
citrate synthase [Kosakonia quasisacchari]	59.6	1e-08	WP_131406303
citrate synthase [Kosakonia quasisacchari]	59.6	1e-08	TCC14968
Kosakonia sp. H02 [enterobacteria]			
citrate synthase [Kosakonia sp. H02]	59.6	1e-08	WLI78337
Atlantibacter hermannii [enterobacteria]			
citrate synthase [Atlantibacter hermannii]	59.6	1e-08	WP_131478108
Candidatus Symbiopectobacterium sp. [enterobacteria]			
citrate synthase [Candidatus Symbiopectobacterium sp.]	59.6	1e-08	WP_291970910
Pectobacterium versatile [enterobacteria]			
citrate synthase [Pectobacterium versatile]	59.6	1e-08	WP_233980192
citrate synthase [Pectobacterium versatile]	59.6	1e-08	WP_130623152
citrate synthase [Pectobacterium versatile]	59.6	1e-08	TAI84867
Symbiopectobacterium purcellii [enterobacteria]			
citrate synthase [Symbiopectobacterium purcellii]	59.6	1e-08	WP_222160025
citrate synthase [Symbiopectobacterium purcellii]	59.6	1e-08	QZN97014
Pseudescherichia sp. [enterobacteria]			
citrate synthase [Pseudescherichia sp.]	59.6	1e-08	WP_312211587
citrate synthase [Pseudescherichia sp.]	59.6	1e-08	WP_312456457
citrate synthase [Pseudescherichia sp.]	59.6	1e-08	WP_312415508
Enterobacter ludwigii [enterobacteria]			
citrate synthase [Enterobacter ludwigii]	59.6	1e-08	WP_079231267
citrate synthase [Enterobacter ludwigii]	59.6	1e-08	RTN58976
Raoultella sp. BIGb0138 [enterobacteria]			
citrate synthase [Raoultella sp. BIGb0138]	59.6	1e-08	WP_132728053
citrate synthase [Raoultella sp. BIGb0138]	59.6	1e-08	TCW16892
Enterobacteriaceae [enterobacteria]			
MULTISPECIES: citrate synthase [Enterobacteriaceae]	59.6	1e-08	WP_222889910
Buttiauxella izardii [enterobacteria]			
citrate synthase [Buttiauxella izardii]	59.6	1e-08	WP_120066216
citrate synthase [Buttiauxella izardii]	59.6	1e-08	RJT19432
Pectobacterium colocasium [enterobacteria]			
citrate synthase [Pectobacterium colocasium]	59.6	1e-08	WP_225087359
Ewingella americana [enterobacteria]			
citrate synthase [Ewingella americana]	59.6	1e-08	WP_140470475
citrate synthase [Ewingella americana]	59.6	1e-08	TPG63950
Leclercia adecarboxylata [enterobacteria]			
citrate (Si)-synthase [Leclercia adecarboxylata]	59.6	1e-08	HBU95599
citrate synthase [Leclercia adecarboxylata]	59.6	1e-08	WP_230431293
citrate synthase [Leclercia adecarboxylata]	59.6	1e-08	UFM70797
Buttiauxella warmboldiae [enterobacteria]			
citrate synthase [Buttiauxella warmboldiae]	59.6	1e-08	WP_124022675
citrate synthase [Buttiauxella warmboldiae]	59.6	1e-08	RPH30384
Pectobacterium sp. F1-1 [enterobacteria]			
citrate synthase [Pectobacterium sp. F1-1]	59.6	1e-08	WP_263059126
Citrate synthase (si) [Pectobacterium sp. F1-1]	59.6	1e-08	UYA59533
Buttiauxella sp. [enterobacteria]			
citrate synthase [Buttiauxella sp.]	59.6	1e-08	WP_324121213
unidentified bacterial endosymbiont [bacteria]			

Description	Score	E value	Accession
citrate synthase [unidentified bacterial endosymbiont]	59.6	1e-08	WP_253378118
Buttiauxella sp. B2 [enterobacteria]			
citrate synthase [Buttiauxella sp. B2]	59.6	1e-08	WP_139881770
citrate synthase [Buttiauxella sp. B2]	59.6	1e-08	TNV17980
Samsonia erythrinae [enterobacteria]			
citrate synthase [Samsonia erythrinae]	59.6	1e-08	WP_132452732
citrate synthase [Samsonia erythrinae]	59.6	1e-08	TCV08894
Superficieibacter sp. [enterobacteria]			
citrate synthase [Superficieibacter sp.]	59.6	1e-08	WP_312949563
Atlantibacter sp. [enterobacteria]			
citrate synthase [Atlantibacter sp.]	59.6	1e-08	WP_165462961
Cronobacter dublinensis [enterobacteria]			
citrate synthase [Cronobacter dublinensis]	59.6	1e-08	WP_105635862
Kosakonia sacchari [enterobacteria]			
citrate synthase [Kosakonia sacchari]	59.6	1e-08	WP_305736724
citrate synthase [Kosakonia sacchari]	59.6	1e-08	WOZ76207
Entomohabitans teleogrylli [enterobacteria]			
citrate synthase [Entomohabitans teleogrylli]	59.6	1e-08	WP_058913582
Pectobacterium sp. PL64 [enterobacteria]			
citrate synthase [Pectobacterium sp. PL64]	59.6	1e-08	WP_240584825
citrate synthase [Pectobacterium sp. PL64]	59.6	1e-08	UMO88729
Trabulsiella odontotermitis [enterobacteria]			
citrate synthase [Trabulsiella odontotermitis]	59.6	1e-08	WP_283280384
citrate synthase [Trabulsiella odontotermitis]	59.6	1e-08	WHP30057
Pectobacterium parvum [enterobacteria]			
citrate synthase [Pectobacterium parvum]	59.6	1e-08	WP_230242980
citrate synthase [Pectobacterium parvum]	59.6	1e-08	UFK40529
Enterobacter sp. Colony194 [enterobacteria]			
citrate synthase [Enterobacter sp. Colony194]	59.6	1e-08	WP_220266144
unclassified Enterobacter [enterobacteria]			
MULTISPECIES: citrate synthase [unclassified Enterobacter]	59.6	1e-08	WP_072567836
Enterobacter sp. PGRG2 [enterobacteria]			
citrate synthase [Enterobacter sp. PGRG2]	59.6	1e-08	WJD47882

• **Taxonomy**

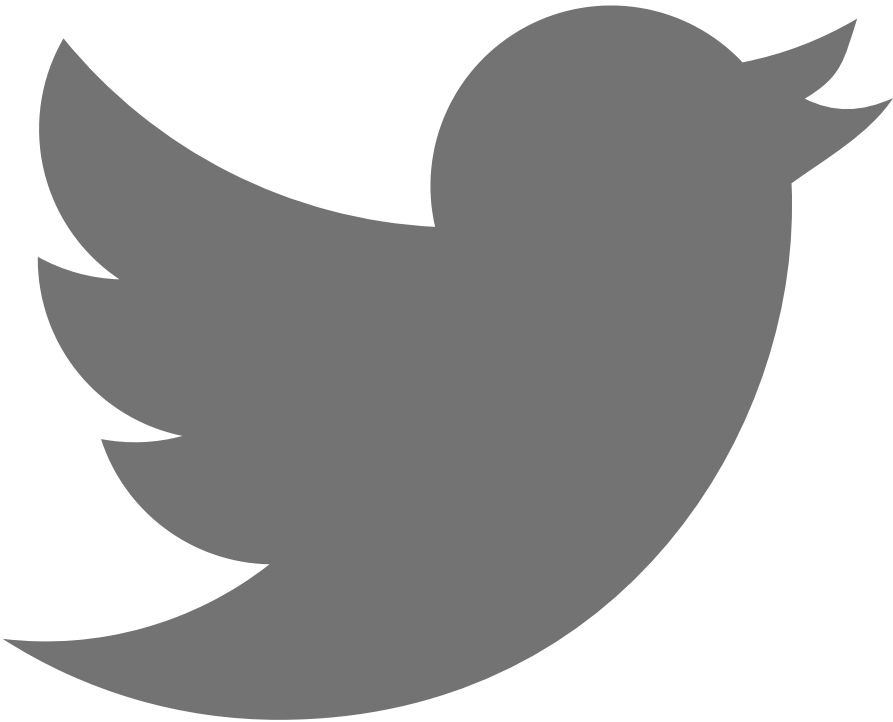
Taxonomy	Number of hits	Number of Organisms	Description
Bacteria	157	71	
. Gammaproteobacteria	155	69	
.. Enterobacterales	154	68	
... Enterobacteriaceae	1	43	Enterobacteriaceae hits
.... Escherichia coli	29	1	Escherichia coli hits
.... Salmonella	13	9	
..... Salmonella enterica	3	9	Salmonella enterica hits
..... Salmonella enterica subsp. enterica	2	8	Salmonella enterica subsp. enterica hits
..... Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083	1	1	Salmonella enterica subsp. enterica serovar Cubana str. CFSAN001083 hits
..... Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253	1	1	Salmonella enterica subsp. enterica serovar Worthington str. BCH-7253 hits
..... Salmonella enterica subsp. enterica serovar Montevideo	1	1	Salmonella enterica subsp. enterica serovar Montevideo 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 Infantis	1	1	Salmonella enterica subsp. enterica serovar Infantis hits
..... Salmonella enterica subsp. enterica serovar Minnesota str. A4-603	1	1	Salmonella enterica subsp. enterica serovar Minnesota str. A4-603 hits
..... Salmonella enterica subsp. enterica serovar Heidelberg	2	1	Salmonella enterica subsp. enterica serovar Heidelberg hits
... Klebsiella/Raoultella group	16	4	
.... Klebsiella	14	3	
..... Klebsiella pneumoniae	11	2	Klebsiella pneumoniae hits
..... Klebsiella pneumoniae IS22	1	1	Klebsiella pneumoniae IS22 hits
..... Klebsiella michiganensis	2	1	Klebsiella michiganensis hits
.... Raoultella sp. BIGb0138	2	1	Raoultella sp. BIGb0138 hits
... Enterobacter	9	7	
.... Enterobacter cloacae complex	4	3	
..... Enterobacter hormaechei subsp. steigerwaltii	1	1	Enterobacter hormaechei subsp. steigerwaltii hits
..... Enterobacter kobei	1	1	Enterobacter kobei hits

..... Enterobacter ludwigii	2	1	Enterobacter ludwigii hits
..... unclassified Enterobacter	1	4	unclassified Enterobacter hits
..... Enterobacter sp.	2	1	Enterobacter sp. hits
..... Enterobacter sp. Colony194	1	1	Enterobacter sp. Colony194 hits
..... Enterobacter sp. PGRG2	1	1	Enterobacter sp. PGRG2 hits
.... Shigella	5	2	
..... Shigella sonnei	3	1	Shigella sonnei hits
..... Shigella flexneri	2	1	Shigella flexneri hits
.... Buttiauxella	11	6	
..... Buttiauxella noackiae	3	2	Buttiauxella noackiae hits
..... Buttiauxella noackiae ATCC 51607	1	1	Buttiauxella noackiae ATCC 51607 hits
..... Buttiauxella izardii	2	1	Buttiauxella izardii hits
..... Buttiauxella warmboldiae	2	1	Buttiauxella warmboldiae hits
..... unclassified Buttiauxella	3	2	
..... Buttiauxella sp.	1	1	Buttiauxella sp. hits
..... Buttiauxella sp. B2	2	1	Buttiauxella sp. B2 hits
.... Kosakonia	5	3	
..... Kosakonia quasisacchari	2	1	Kosakonia quasisacchari hits
..... Kosakonia sp. H02	1	1	Kosakonia sp. H02 hits
..... Kosakonia sacchari	2	1	Kosakonia sacchari hits
.... Atlantibacter	2	2	
..... Atlantibacter hermannii	1	1	Atlantibacter hermannii hits
..... Atlantibacter sp.	1	1	Atlantibacter sp. hits
.... Symbiopectobacterium	3	2	
..... Candidatus Symbiopectobacterium sp.	1	1	Candidatus Symbiopectobacterium sp. hits
..... Symbiopectobacterium purcellii	2	1	Symbiopectobacterium purcellii hits
.... Pseudescherichia sp.	3	1	Pseudescherichia sp. hits
.... Leclercia adecarboxylata	3	1	Leclercia adecarboxylata hits
.... Superficieibacter sp.	1	1	Superficieibacter sp. hits
.... Cronobacter dublinensis	1	1	Cronobacter dublinensis hits
.... Entomohabitans teleogrylli	1	1	Entomohabitans teleogrylli hits
.... Trabulsiella odontotermitis	2	1	Trabulsiella odontotermitis hits
... Erwiniaceae	28	16	
.... Pantoea	2	13	Pantoea hits
..... unclassified Pantoea	8	6	
..... Pantoea sp. B_10	2	1	Pantoea sp. B_10 hits
..... Pantoea sp. M_5	2	1	Pantoea sp. M_5 hits
..... Pantoea sp. QMID1	1	1	Pantoea sp. QMID1 hits
..... Pantoea sp. ACRSB	1	1	Pantoea sp. ACRSB hits
..... Pantoea sp. YU22	1	1	Pantoea sp. YU22 hits
..... Pantoea sp.	1	1	Pantoea sp. hits
..... Pantoea ananatis	2	5	Pantoea ananatis hits
..... Pantoea ananatis LMG 20103	1	1	Pantoea ananatis LMG 20103 hits
..... Pantoea ananatis 15320	1	1	Pantoea ananatis 15320 hits
..... Pantoea ananatis AJ13355	1	1	Pantoea ananatis AJ13355 hits
..... Pantoea ananatis BRT98	1	1	Pantoea ananatis BRT98 hits
..... Pantoea piersonii	4	1	Pantoea piersonii hits
... Winslowiella	7	2	
..... Winslowiella toletana	4	1	Winslowiella toletana hits
..... Winslowiella arboricola	3	1	Winslowiella arboricola hits
.... Mixta calida	1	1	Mixta calida hits
... Hafnia alvei ATCC 51873	1	1	Hafnia alvei ATCC 51873 hits
... Yersiniaceae	8	2	
.... Rouxiiella badensis	6	1	Rouxiiella badensis hits
.... Ewingella americana	2	1	Ewingella americana hits
... Pectobacteriaceae	12	6	
.... Pectobacterium	10	5	
..... Pectobacterium versatile	3	1	Pectobacterium versatile hits
..... Pectobacterium colocasium	1	1	Pectobacterium colocasium hits
..... unclassified Pectobacterium	4	2	
..... Pectobacterium sp. F1-1	2	1	Pectobacterium sp. F1-1 hits
..... Pectobacterium sp. PL64	2	1	Pectobacterium sp. PL64 hits
..... Pectobacterium parvum	2	1	Pectobacterium parvum hits

.... Samsonia erythrinae	2	1	Samsonia erythrinae hits
.. Acinetobacter baumannii	1	1	Acinetobacter baumannii hits
. Bacteroides heparinolyticus	1	1	Bacteroides heparinolyticus hits
. unidentified bacterial endosymbiont	1	1	unidentified bacterial endosymbiont hits

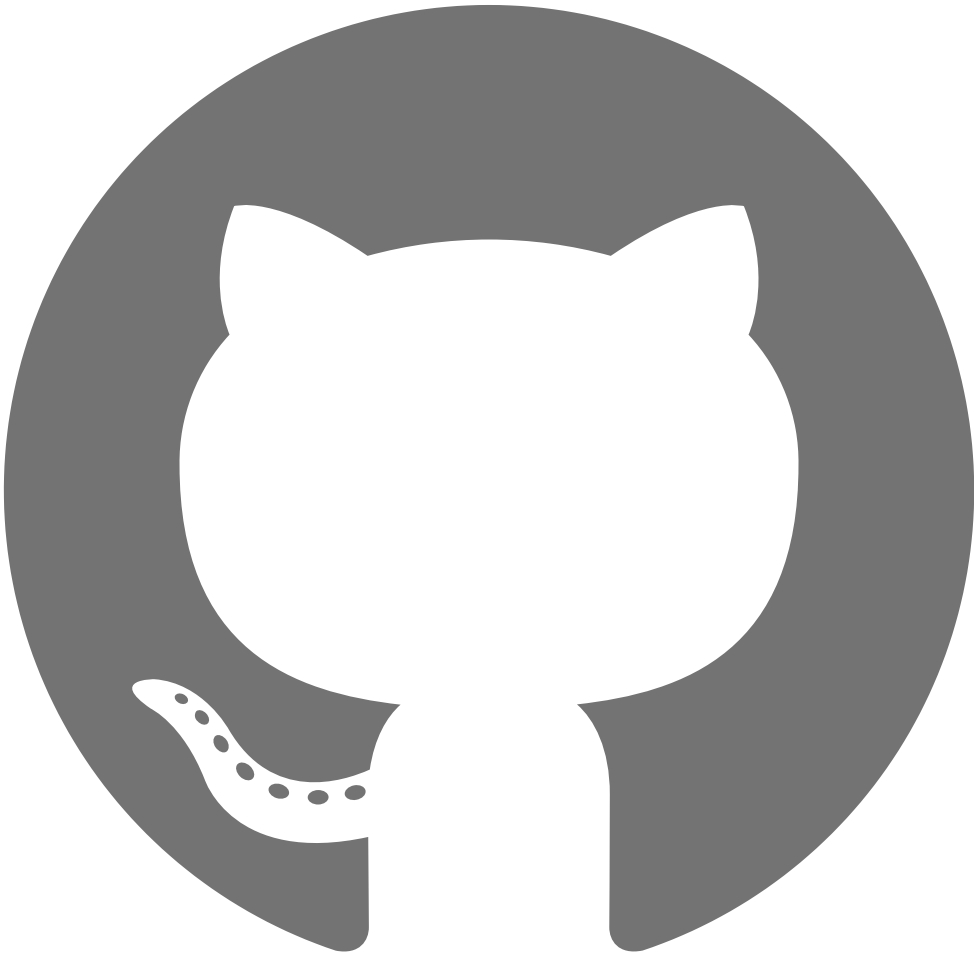
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