

**ProFound - Search Result Summary**

Version 2002.03.01

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**Protein Candidates**

Rank	Probability	Est'd Z	Protein Information and Sequence Analyse Tools (T)	%	pI	kDa	R
1	9.9e-001	0.81	<p><a href="#">FTTSGH0150</a> 150045 151226 [+3 L=1182 r=-1.259] (FTT0137 150045 151226 +) ==&gt;gb AAM35853.1  elongation factor Tu [Xanthomonas axonopodis pv. citri str. 306]gb AAM35841.1  elongation factor Tu [Xanthomonas axonopodis pv. citri str. 306] Score = 673 bits (1737), Expect = 0.0==&gt;ref YP_169203.1  elongation factor Tu (EF-Tu) [Francisella tularensis subsp.tularensis Schu 4] Score = 788 bits (2034), Expect = 0.0</p> <p><a href="#">FTTSGH0804</a> 750167 750844 [+2 L= 678 r=-1.224] (FTT0727 750167 750844 +) ==&gt;ref ZP_00533039.1  conserved hypothetical protein [Chlorobium phaeobacteroides BS1]gb EAM62597.1  conserved hypothetical protein [Chlorobium phaeobacteroides BS1] Score = 77.0 bits (188), Expect = 4e-13==&gt;ref YP_169740.1  hypothetical protein FTT0727 [Francisella tularensis subsp.tularensis Schu 4] Score = 427 bits (1098), Expect = e-118==&gt;ref YP_170562.1  HlyD family secretion protein [Francisella tularensis subsp.tularensis Schu 4] Score = 66.6 bits (161), Expect = 6e-10</p> <p><a href="#">FTTSGH0546</a> 523376 522507 [-3 L= 870 r=-1.231] (FTT0503c 523376 522507 -) ==&gt;ref ZP_00146840.2  COG0074: Succinyl-CoA synthetase, alpha subunit [Psychrobacter sp.273-4] Score = 497 bits (1280), Expect = e-139==&gt;ref YP_169538.1  Succinyl-CoA synthetase, alpha subunit [Francisella tularensissubsp. tularensis Schu 4] Score = 578 bits (1489), Expect = e-164</p> <p><a href="#">FTTSGH0254</a> 246267 245347 [-1 L= 921 r=-1.243] (FTT0231c 246267 245347 -) ==&gt;ref ZP_00473738.1  lipid A biosynthesis acyltransferase [Chromohalobacter salexigensDSM 3043] Score = 173 bits (439), Expect = 6e-42==&gt;ref YP_169284.1  Acyltransferase [Francisella tularensis subsp.</p>	12	5.1	43.39	
2	1.1e-003	-		9	9.0	25.62	
3	1.0e-003	-		9	6.1	30.08	
4	7.5e-004	-		10	9.5	36.05	

			tularensis Schu 4]emb CAG44864.1  Acyltransferase [Francisella tularensis subsp. tularensis SCHU S4] Score = 642 bits (1655), Expect = 0.0====>ref YP_169285.1  Acyltransferase [Francisella tularensis subsp. tularensis Schu 4]gb AAV28958.1  NT02FT1579 [synthetic construct] Score = 338 bits (866), Expect = 2e-91				
5	5.8e-004	-	FTTSGH1045 948404 947280 [-3 L=1125 r=-1.205] (FTT0936c 948404 947280 -) ====>gb AAO90527.1  8-amino-7-oxononanoate synthase [Coxiella burnetii RSA 493]ref NP_820013.1  8-amino-7-oxononanoate synthase [Coxiella burnetii RSA 493] Score = 225 bits (574), Expect = 2e-57====>ref YP_169929.1  8-amino-7-oxononanoate synthase [Francisella tularensis subsp.tularensis Schu 4] Score = 744 bits (1921), Expect = 0.0 FTTSGH0635 594822 596192 [+3 L=1371 r=-1.223] (FTT0577 594822 596192 +) ====>ref YP_094826.1  L-serine dehydratase (iron, sulfur-dependent) [Legionella pneumophilasubsp. pneumophila str. Philadelphia 1] Score = 437 bits (1123), Expect = e-121====>ref YP_169601.1  L-serine dehydratase 1 [Francisella tularensis subsp. tularensis Schu4] Score = 916 bits (2367), Expect = 0.0 FTTSGH1627 1489764 1488811 [-1 L= 954 r=-1.194] (FTT1442c 1489764 1488811 -) ====>ref YP_156272.1  DNA-directed RNA polymerase alpha subunit [Idiomarina loihensisL2TR] Score = 218 bits (555), Expect = 2e-55====>ref YP_170380.1  DNA-directed RNA polymerase, alpha subunit [Francisella tularensissubsp. tularensis Schu 4] Score = 622 bits (1603), Expect = e-177 FTTSGH0508 489503 489937 [+2 L= 435 r=-1.258] (FTT0471 489503 489937 +) ====>ref NP_892505.1  Dehydroquinase class II [Prochlorococcus marinus subsp. pastorisstr. CCMP1986] Score = 171 bits (434), Expect = 5e-42====>ref YP_169509.1  3-dehydroquinate dehydratase, type II [Francisella tularensissubsp. tularensis Schu 4] Score = 293 bits (750), Expect = 1e-78 FTTSGH1213 1090715 1090870 [+2 L= 156 r=-1.185] [ShadowedBy _1245] (None identical in .gff) ====>ref YP_170059.1	5	9.0	42.55	
6	5.7e-004	-		7	5.1	49.99	
7	1.0e-004	-		8	4.8	35.12	
8	7.1e-005	-		13	6.0	16.31	
9	4.5e-005	-		35	9.7	5.86	

hypothetical membrane protein [Francisella tularensis subsp.tularensis Schu 4] Score = 97.8 bits (242), Expect = 9e-20

[FTTSGH1233](#) 1110999 1110709 [-1 L= 291 r=-1.209] [DelayedBy \_1266 L=42] (FTT1099 1111041 1110709 -)

10 4.2e-005 - =====>ref|YP\_170077.1| hypothetical protein FTT1099c [Francisella tularensis subsp.tularensis Schu 4] Score = 194 bits (493), Expect = 7e-49 19 9.7 11.37 

## NOTE:

1. To search again using [unmatched masses](#), click the symbol .

**Input Summary**

**Search id** 20060330152319-184C-192168001107

**Sequences** 2059

**Date & Time** Thu Mar 30 21:23:19 2006 UTC (Search Time: 0.13 sec.)

**Sample ID** Schu4 173

**Database** schu2K [..\databases\schu2k]

**Taxonomy** -

**Mass Range** 0 - 50 kDa

**pI Range** 0.0 -14.0

**Digestion** Trypsin

**Missed Cuts** 1

**Modifications** +O@M(Partial);

**Charge State** MH+

**Masses (avg)**

**Tolerance (avg)** 1.00 ppm

**Masses (mon)** 856.520 899.527 1139.825 1233.614 1373.655 1395.482 1469.771  
1634.489 1638.823 1701.907 2009.102 2163.171 2215.078

**Tolerance (mon)** 50.00 ppm

**Number of Peptides** 13

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