

Proteins Specific for the Alpha-proteobacteria

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Protein	CC2102 [16126341]	CC3292 [16127522]	CC3319 ^b [16127549]	CC1887 ^c [16126130]	CC1725 [16125969]	CC1365 [16125614]
Length	162	224	89	105	100	161
<i>Mag. mag.</i>	2e-19 (1.04)	9e-49 (1.29)	2e-15 (0.99)	3e-20 (1.10)	1e-08 (0.88)	2e-21 (0.87)
<i>Rhod. rubr.</i>	3e-17 (1.09)	1e-42 (0.92)	1e-12 (1.04)	4e-21 (1.12)	1e-08 (1.09)	3e-17 (0.96)
<i>Nov. aro.</i>	1e-19 (1.02)	3e-45 (1.04)	4e-07 (0.88)	2e-25 (1.30)	-	1e-11 (0.98)
<i>Z. mobilis</i> *	4e-24 (1.01)	6e-40 (1.00)	-	-	-	5e-11 (1.02)
<i>C. cres.</i> *	1e-64 (1.00)	e-106 (1.00)	1e-34 (1.00)	3e-61 (1.00)	4e-49 (1.00)	7e-79 (1.00)
<i>Sil. pom.</i> *	3e-16 (0.93)	2e-44 (1.15)	8e-11 (0.97)	3e-22 (1.21)	8e-06 (0.99)	4e-12 (0.96)
<i>Sil. sp.</i>	1e-13 (0.98)	1e-43 (1.14)	8e-09 (0.99)	5e-24 (1.22)	1e-05 (0.88)	9e-12 (0.89)
<i>Rh. spha.</i>	1e-16 (0.94)	3e-43 (1.11)	4e-08 (0.94)	8e-24 (1.18)	2e-08 (1.00)	1e-11 (0.91)
<i>Bra. jap.</i> *	5e-21 (1.06)	8e-47 (1.11)	2e-12 (1.01)	2e-29 (1.29)	2e-09 (1.05)	2e-11 (1.15)
<i>Rho. pal.</i> *	8e-22 (1.10)	4e-45 (1.06)	7e-13 (1.45)	2e-25 (1.30)	2e-08 (1.05)	2e-12 (1.00)
<i>Agr. tum.</i> *	4e-21 (1.04)	7e-49 (1.02)	4e-10 (0.96)	3e-26 (1.26)	5e-06 (1.14)	7e-13 (1.10)
<i>Sino. meli.</i> *	4e-23 (1.06)	2e-49 (1.04)	6e-12 (1.01)	2e-22 (1.25)	5e-05 (0.93)	1e-14 (1.04)
<i>Bru. mel.</i> *	5e-19 (1.17)	4e-48 (1.02)	1e-12 (1.03)	1e-23 (1.30)	1e-07 (1.09)	4e-15 (1.04)
<i>Bru. suis</i> *	5e-19 (1.17)	4e-48 (1.02)	2e-12 (0.97)	1e-23 (1.30)	2e-08 (1.09)	4e-15 (1.07)
<i>Meso. loti</i> *	5e-18 (1.10)	9e-49 (1.00)	9e-18 (0.97)	9e-23 (1.26)	4e-09 (1.20)	3e-14 (1.40)
<i>Meso. sp.</i>	2e-17 (1.09)	2e-47 (1.03)	5e-16 (0.98)	6e-27 (1.26)	8e-06 (1.05)	7e-15 (1.33)
<i>B.henselae</i> *	8e-14 (1.12)	5e-41 (1.04)	4e-12 (0.96)	2e-23 (1.26)	5e-08 (1.09)	4e-10 (0.99)
<i>B. quintana</i> *	5e-14 (1.12)	8e-42 (1.02)	4e-12 (0.96)	5e-21 (1.26)	1e-08 (1.09)	3e-11 (0.99)
<i>R. conorii</i> *	5e-10 (0.97)	3e-41 (0.83)	1e-07 (0.88)	1e-05 (0.94)	5e-11 (1.01)	7e-07 (0.98)
<i>R.prowazekii</i> *	4e-08 (0.98)	4e-40 (0.83)	3e-07 (0.88)	5e-07 (0.95)	2e-12 (1.07)	8e-06 (0.95)
<i>R. typhi</i> *	1e-08 (0.98)	2e-40 (0.83)	3e-07 (0.88)	4e-07 (0.95)	5e-11 (1.07)	3e-06 (0.98)
<i>R. akari</i>	6e-09 (0.97)	9e-41 (0.90)	1e-07 (0.88)	2e-05 (0.94)	7e-12 (1.07)	3e-07 (0.98)
<i>R. rickettsii</i>	1e-10 (0.97)	9e-41 (0.83)	1e-07 (0.88)	1e-05 (0.94)	5e-11 (1.01)	7e-07 (0.98)
<i>R. sibirica</i>	2e-10 (0.97)	5e-41 (0.83)	1e-07 (0.88)	1e-05 (0.94)	5e-11 (1.01)	3e-07 (0.98)
<i>Wolbachia</i> *	5e-11 (0.90)	3e-20 (0.89)	2e-07 (0.99)	1e-08 (0.99)	1e-05 (1.04)	3e-04 (0.70)
<i>Ana. mar.</i> *	2e-09 (0.98)	2e-40 (0.92)	-	-	9e-07 (1.19)	-
<i>Ehr. canis</i>	2e-07 (1.01)	6e-39 (0.95)	2e-06 (1.04)	5e-10 (0.94)	-	0.023 (0.90)
<i>Ehr. rum.</i> *	1e-08 (0.94)	2e-39 (0.99)	2e-05 (1.07)	8e-11 (0.89)	-	4e-05 (0.84)
Non -Alpha	-	Strep. glau. 1.6 (1.89)	Fuso. nucl. 2.9 (3.87)	Burk. fung. (3.69)	Azo. sp. 0.44 (0.91)	Myc. pneum. 0.98 (2.63)

Alpha-specific proteins were identified by BLAST searches on individual protein sequences on three α -proteobacterial genomes as described in the Methods section. The expected (E) values for various alpha-proteobacteria species as well as the first non-alpha species in the BLAST results are shown here. The values in brackets after the E values represent the ratios of the length of the hit protein divided by the query protein and a value close to 1.0 indicates that the homologues are of similar lengths. The CC numbers indicate the protein identification number in the *C. crescentus* genome. GenBank accession numbers for the query sequence are shown in square brackets. An asterisk (*) identifies bacterial genomes which are completely sequenced, whereas other sequences are from partially or incompletely sequenced genomes. Proteins not found in a given species are indicated with a dash (-).

Protein also found in *Eukaryotes*. The E values for a few representative eukaryotic species are as follows: *Homo sapiens*; 8e-10 [30583279], *Chlamydomonas reinhardtii*; 3e-09 [34334022], *Caenorhabditis elegans*; 5e-06 [7332202].