

NCBI Blastqbj[KIF42822.1] x +

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407

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Descriptions | Graphic Summary | Alignments | Taxonomy

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7 sequences selected GenPept Graphics Distance tree of results Multiple alignment

Sequences with E-value BETTER than threshold

select all 1 sequences selected PSI-BLAST iteration 1

Description	Max score	Total score	Query cover	E value	Per. Ident	Accession	Select for PSI blast	Used to build PSSM	Newly added
<input checked="" type="checkbox"/> multicopper oxidase type 3 [Nostoc azollae' 0708]	38.1	38.1	30%	5e-04	21.95%	ADI63907.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Run PSI-BLAST Iteration 2 with max number of sequences Run

Sequences with E-value WORSE than threshold

select all 6 sequences selected PSI-BLAST iteration 1

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Figure S1. Screenshot of PSI-BLAST result for Nitrite Reductases in *N. azollae*.

NCBI Blastemb[CAA67139.1] x +

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Distance tree of results Multiple alignment MSA viewer ?

Descriptions Graphic Summary Alignments Taxonomy

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0 sequences selected GenPept Graphics Distance tree of results Multiple alignment

Sequences with E-value BETTER than threshold

select all 0 sequences selected PSI-BLAST iteration 1

	Description	Max score	Total score	Query cover	E value	Per. Ident	Accession	Select for PSI blast	Used to build PSSM	Newly added
<input type="checkbox"/>	hypothetical protein B7486_09925 [cyanobacterium TDX16]	139	139	88%	2e-34	27.21%	QWY71959.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	hypothetical protein B7486_15065 [cyanobacterium TDX16]	125	125	79%	2e-29	26.74%	QWY70916.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	glycosyltransferase [Nostoc sp. 3335mG]	122	122	55%	6e-28	35.32%	WP_110149044.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	glycosyltransferase [Calothrix sp. HK-06]	118	118	53%	2e-26	32.93%	WP_073620006.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	MULTISPECIES_glycosyltransferase [unclassified Calothrix]	118	118	62%	2e-26	30.45%	WP_098692806.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	glycosyltransferase [cyanobacterium PCC 7702]	108	108	61%	4e-23	30.14%	WP_017323624.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	glycosyltransferase [Nostoc sp. 3335mG]	108	108	52%	5e-23	32.91%	WP_110149102.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	glycosyltransferase [Calothrix elsteri]	105	105	53%	3e-22	29.46%	WP_095722418.1	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	glycosyltransferase [Nostoc sp. 3335mG]	97.8	97.8	52%	1e-19	32.77%	WP_110155217.1	<input checked="" type="checkbox"/>		

Feedback

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Figure S2. Screenshot of PSI-BLAST query result when NodC nodulation protein from *R. leucaenae* USDA 9039 was searched, specifically on cyanobacteria.