

[Q1] Tell me the name of a protein you are interested in. Include the species and the accession number. This can be a human protein or a protein from any other species as long as it's function is known.

If you do not have a favorite protein, select human RBP4 or KIF11. Do not use beta globin as this is in the worked example report that I provide you with online.

Name: RBP4

Accession: P02753.3

Species: Homo Sapiens

[Q2] Perform a BLAST search against a DNA database, such as a database consisting of genomic DNA or ESTs. The BLAST server can be at NCBI or elsewhere. Include details of the BLAST method used, database searched and any limits applied (e.g. Organism).

Method: TBLASTN (2.7.1) search against nematode ESTs

Database: Nucleotide collection (nt)

Organism: Homo sapiens (taxid:9606)

<input checked="" type="checkbox"/>	Synthetic construct DNA, clone: pF1KB6882, Homo sapiens RBP4 gene for retinol binding protein 4, plasma...	synthetic construct	404	404	100%	1e-141	96.02%	620	AB527944.1
<input checked="" type="checkbox"/>	Pan troglodytes retinol binding protein 4 (RBP4), mRNA	Pan troglodytes	404	404	100%	1e-141	96.02%	606	NM_001045495.1
<input checked="" type="checkbox"/>	Synthetic construct clone IMAGE:100004011: FLH176380.01X: RZPDo839C08122D retinol binding protein ...	synthetic construct	404	404	100%	2e-141	96.02%	646	DQ891381.2
<input checked="" type="checkbox"/>	Synthetic construct Homo sapiens clone IMAGE:100009018: FLH176376.01L: RZPDo839C08121D retinol b...	synthetic construct	404	404	100%	3e-141	96.02%	646	DQ894558.2
<input checked="" type="checkbox"/>	Synthetic construct Homo sapiens clone ccsbBroadEn_06852 RBP4 gene, encodes complete protein	synthetic construct	404	404	100%	7e-141	96.02%	735	KJ897458.1
<input checked="" type="checkbox"/>	PREDICTED: Gorilla gorilla gorilla retinol binding protein 4 (RBP4), transcript variant X2, mRNA	Gorilla gorilla go...	404	404	100%	4e-140	96.02%	914	XM_055352508.1
<input checked="" type="checkbox"/>	PREDICTED: Chlorocebus sabaeus retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Chlorocebus sa...	405	405	100%	5e-140	95.52%	1001	XM_007963589.2
<input checked="" type="checkbox"/>	PREDICTED: Papio anubis retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Papio anubis	405	405	100%	5e-140	95.52%	958	XM_003904013.3
<input checked="" type="checkbox"/>	PREDICTED: Pongo abelii retinol binding protein 4 (RBP4), mRNA	Pongo abelii	404	404	100%	5e-140	96.02%	934	XM_002820994.4
<input checked="" type="checkbox"/>	PREDICTED: Pan paniscus retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Pan paniscus	405	405	100%	5e-140	96.02%	998	XM_034931118.2
<input checked="" type="checkbox"/>	PREDICTED: Pongo pygmaeus retinol binding protein 4 (RBP4), mRNA	Pongo pygmaeus	405	405	100%	6e-140	96.02%	968	XM_054436518.1
<input checked="" type="checkbox"/>	PREDICTED: Pan troglodytes retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Pan troglodytes	405	405	100%	6e-140	96.02%	969	XM_009458876.4
<input checked="" type="checkbox"/>	PREDICTED: Cercopithecus atys retinol binding protein 4, plasma (RBP4), transcript variant X1, mRNA	Cercopithecus atys	404	404	100%	7e-140	95.52%	977	XM_012063010.1
<input checked="" type="checkbox"/>	PREDICTED: Theropithecus gelada retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Theropithecus g...	404	404	100%	7e-140	95.52%	948	XM_025397550.1
<input checked="" type="checkbox"/>	PREDICTED: Theropithecus gelada retinol binding protein 4 (RBP4), transcript variant X3, mRNA	Theropithecus g...	404	404	100%	7e-140	95.52%	921	XM_025397552.1
<input checked="" type="checkbox"/>	PREDICTED: Papio anubis retinol binding protein 4 (RBP4), transcript variant X2, mRNA	Papio anubis	404	404	100%	8e-140	95.52%	918	XM_009214989.3
<input checked="" type="checkbox"/>	Synthetic construct Homo sapiens clone CCSBHm_00021405 RBP4 (RBP4) mRNA, encodes complete prot...	synthetic construct	401	401	100%	1e-139	95.52%	735	KR711248.1
<input checked="" type="checkbox"/>	PREDICTED: Pan paniscus retinol binding protein 4 (RBP4), transcript variant X2, mRNA	Pan paniscus	404	404	100%	1e-139	96.02%	994	XM_008950694.4
<input checked="" type="checkbox"/>	Homo sapiens retinol binding protein 4, plasma, mRNA (cDNA clone MGC:22269 IMAGE:4767481), complet...	Homo sapiens	404	404	100%	1e-139	96.02%	950	BC020633.1
<input checked="" type="checkbox"/>	PREDICTED: Cercopithecus atys retinol binding protein 4, plasma (RBP4), transcript variant X2, mRNA	Cercopithecus atys	404	404	100%	1e-139	95.52%	961	XM_012063015.1
<input checked="" type="checkbox"/>	Homo sapiens retinol binding protein 4 (RBP4), transcript variant 2, mRNA	Homo sapiens	404	404	100%	1e-139	96.02%	1015	NM_001323517.1
<input checked="" type="checkbox"/>	PREDICTED: Macaca thibetana thibetana retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Macaca thibetan...	403	403	100%	1e-139	95.02%	931	XM_050802827.1
<input checked="" type="checkbox"/>	PREDICTED: Macaca fascicularis retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Macaca fascicul...	403	403	100%	2e-139	95.02%	934	XM_005565974.3
<input checked="" type="checkbox"/>	PREDICTED: Macaca nemestrina retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Macaca nemestr...	404	404	100%	2e-139	95.02%	970	XM_011738538.1
<input checked="" type="checkbox"/>	PREDICTED: Macaca mulatta retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Macaca mulatta	404	404	100%	2e-139	95.02%	1011	XM_015147709.2
<input checked="" type="checkbox"/>	PREDICTED: Nomascus leucogenys retinol binding protein 4 (RBP4), transcript variant X1, mRNA	Nomascus leuco...	404	404	100%	2e-139	95.02%	986	XM_003255233.3