

Product datasheet for **RG205900**

Epiphycan (EPYC) (NM_004950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epiphycan (EPYC) (NM_004950) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epiphycan
Synonyms:	DSPG3; Pg-Lb; PGLB; SLRR3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205900 representing NM_004950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGACATTAGCAGGACTTGTCTGGGACTTGTCATCTTTGATGCTGCTGTGACTGCCCCAACTCTAG
 AGTCCATCAACTATGACTCAGAACTATGATGCCACCTTAGAAGACCTGGATAATTTGTACAACATGA
 AAACATACCTGTTGGTAAAGTTGAGATTGAAATAGCCACAGTGATGCCTTCAGGGAACAGAGAGCTCCTC
 ACTCCACCCACAGCCTGAGAAGGCCAGGAAGAGGAAGAGGAGGAGGAATCTACTCCAGGCTGATTG
 ATGGCTCTTCTCCCAGGAGCCTGAATTCACAGGGTTCTGGGGCCACACAAAATGAAGACTTTCCAAC
 CTGTCTTTTGTGACTTGTATAAGTACCACCGTGTACTGTGATGACCATGAACTTGATGCTATTCTCCG
 CTGCCAAAGAACCCGCTTATTTCTATTCCCGCTTTAACAGAATTAAGATCAACAAAAATGACTTTG
 CAAGCCTAAGTGATTTAAAAAGGATTGATCTGACATCAAATTTAATATCTGAGATTGATGAAGATGCATT
 CCGAAACTGCCTCAACTTCGAGAGCTTGCTGCGTGACAACAAAAAAGGCAGCTCCAGAAATGCCA
 ACCACTTTGACATTTATTGATATTAGCAACAATAGACTTGAAGGAAAGGGATAAAGCAAGAAGCATTTA
 AAGACATGTATGATCTCCATCATCTGTACCTCACTGATAACAACCTGGACCACATCCCTCTGCCACTCCC
 AGAAAACTACGAGCCCTTCACCTCCAGAATAACAACATTCTGGAAATGCACGAAGATACGTTCTGCAAT
 GTTAAAAATTTGACTTATATTCGTAAGGCACTAGAGGACATTGATTGGATGGAACCCCTATTAATCTCA
 GCAAACTCCTCAAGCATACATGTGTCTACCTCGTCTGCCTGTTGGGAGCCTTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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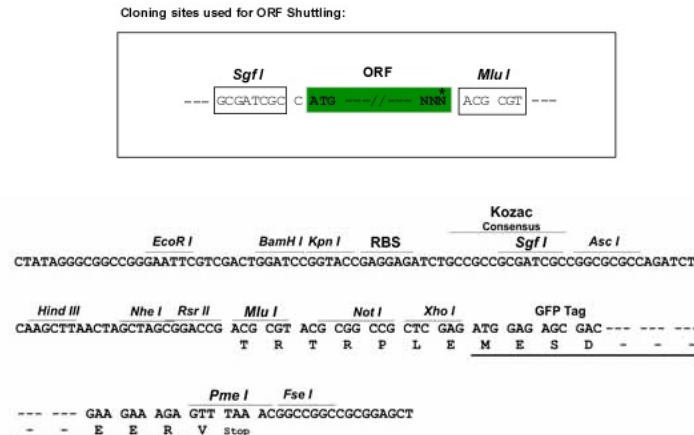
Protein Sequence: >RG205900 representing NM_004950
 Red=Cloning site Green=Tags(s)

MKTLAGLVGLVIFDAAVTAPTLESINYDSEYDATLEDLDNLYNYENIPVGKVEIEIATVMPSGNRELL
 TPPPQPEKAQEEEEESTPRLIDGSSPQEFTGVLGPHTNEDFPTCLLCTCISTTVYCDHDLDAIPP
 LPKNTAYFYSRFNRIKKINKNDFASLSDLKRIDLTSNLISEIDEDAFRKLPLQLRELVLDRDNKIRQLPELP
 TTLTFIDISNNRLGRKGIKQEAFKDMYDLHHLYLTDNNLDHIPLPLPENLRALHLQNNNILEMHEDTFCN
 VKNLTYIRKALEDIRLDGNPINLSKTPQAYMCLPRLPVGSLV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004950

ORF Size: 966 bp

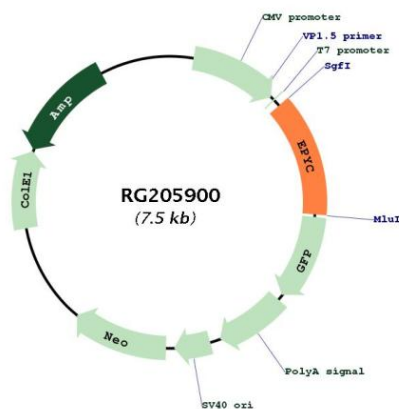
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_004950.3, NP_004941.2</u>
RefSeq Size:	1594 bp
RefSeq ORF:	969 bp
Locus ID:	1833
UniProt ID:	<u>Q99645</u>
Cytogenetics:	12q21.33
Domains:	LRRNT, LRR, LRR_TYP
Protein Families:	Secreted Protein
Gene Summary:	Dermatan sulfate proteoglycan 3 is a member of the small leucine-rich repeat proteoglycan family. This gene is composed of seven exons. It regulates fibrillogenesis by interacting with collagen fibrils and other extracellular matrix proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205900