

Product datasheet for **MG224301**

Unc5b (NM_029770) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unc5b (NM_029770) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Unc5b
Synonyms:	6330415E02Rik; A630020F16; D10Bwg0792e; Unc5h2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224301 representing NM_029770
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGCCCGAGCGGGGTGCGGAGCGGCTGCTGCTGGCGCTGCTGCTTTGCTGGGATCCGACACCGA
 GCCTAGCAGGCGTTGACTCTGCTGGCCAGGTGCTCCAGACTCCTACCCATCAGCCCTGCGGAGCAGCT
 GCCGTAATTCCTATTGGAGCCACAGGACGCTACATCGTAAAGAACAAGCCAGTGGAACTGCACTGCAGA
 GCCTTCCCTGCCACGCAGATCTACTTCAAGTGTAAATGGCGAGTGGGTGAGCCAGAATGACCACGTACAC
 AGGAGAGCCTGGATGAGGCCACAGGCTTGGGGTGCAGAGGTGCAGATCGAGGTGTACGGCAGCAAGT
 GGAGGAACTCTTCGGGCTCGAGGACTACTGGTCCAGTGCCTGGGCTGAGCTCTTCGGGAACTACCAAG
 AGTCGCCGAGCCTACATCCGATTGCCTACTTGCAGCAAGAATTTGACCAGGAGCCTCTGGCCAAGGAGG
 TACCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCACCGAGGGAGTGCCTGTGGCTGAGGTGGAATG
 GCTCAAGAATGAAGATGTATTGACCCGCTCAGGACACTAACTTCTGCTCACCATTGACCACAACCTC
 ATCATCCGCCAGGCGCGCTCTCAGACACGGCCAACTACACCTGTGTGGCCAAGAATATCGTGGCCAAGC
 GCCGGAGCACCACGGCCACAGTCATCGTCTATGTGAATGGAGGCTGGTCCAGCTGGGCAGAGTGGTACC
 CTGTTCCAATCGCTGTGGCCGAGGCTGGCAGAAGCGTACTCGGACCTGCACCAATCCAGCCCCACTCAAT
 GGAGGGCGCTTCTGTGAGGGACAGGCTTCCAGAAGACAGCTTGCACCACCGTGTGCCAGTGGATGGAG
 CGTGGACCGAGTGGAGCAAGTGGTCTGCCTGCAGCACAGAGTGTGCGCACTGGCGCAGCCGCGAGTGCAT
 GGCACCGCCACCCAGAACCGAGGCGTACTGCAGCGGGACGCTACTTACTCCAAGAAGTGCAGTGTG
 GGGCTGTGCGTGTGAATCAGAGAAGCTAAACGACCTAAAAGCCACCCCTGGAGACATCGGGAGATG
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 GGTTCGGGTCTGGCCTGGCTGATGGAGCCGACCTGCTGGGTGTCTCCCGGGGACGTACCCAGGGC
 ATTTCTCCCGGGACACCCATTTCTGCACCTGCGCAGTGCAGCCTTGGTCCCAGCACCTCTGGGCT
 ACCTCGGGACCCAGCAGCAGTGTACGGCCACCTTTGGTTGCCGGAGGAAGGCTGAGCTCCCCGGC
 ACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTTCCAGGGCAAGTCTATGACCTGTATCTACATA
 TCAACAAGGCCGAAAGCACCCCTCCCACTTTCAGAAGGTTCCAGACAGTATTGAGCCCTCGGTGACCTG
 TGGGCCACAGGCTACTCCTGTGCCGCTGTGTCCTCACCGTGCACCACTGTGCTGAAGTATCGCT
 GGAGACTGGATCTTTAGCTCAAGACCCAGGCCATCAGGGCCACTGGGAGGAGTGGTACCTGGATG
 AGGAGACCCTCAACACACCCTGCTACTGCCAGCTGGAGGCTAAGTCTGCCACATCCTGCTGGACCAGCT
 GGGTACCTACGTATTCATGGGCGAGTCTACTCTCGCTGTCAGTCAAGCGGCTCCAGCTGGCCATCTTC
 GCCCAGCCCTGTCACCTCCCTGGAGTATAGCCTCAGGTCTACTGTCTGGAGGACACACCTGTAGCAC
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 TCAACCCTGGAGAGGCATAGCCTGGCCTCCACGGAGTTCACCTGTAAGGTCTGCGTGCAGGAGTCAAGG
 GGAAGGCCAGATTTTCCAGCTGCACACAACGTTGGCCGAGACGCTGCTGGCTCCCTGGATGCTCTCTGC
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 GAAGCTCGGCAACAGGATGACGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGCAAGAGT
 AGATGCTGGTAGCCATGGCCACAGATGGCGATTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG224301 representing NM_029770
 Red=Cloning site Green=Tags(s)

MRARSGVRSALLLALLLCWDPTPSLAGVDSAGQVLPDSYSPAPAEQLPYFLLPEQDAYIVKNKPVELHCR
 AFPATQIYFKCNGEWVSQNDHVTQESLDEATGLRVREVQIEVSRQQVEELFGLLEDYWCQCVAWSSSGTTK
 SRRAYIRIAYLRKNFDQEPLAKEVPLDHEVLLQCRPPEGVPVAEVEWLKNEVDIDPAQDTNFLTIDHNL
 IIRQARLSDTANYTCVAKNIVAKRRSTTATVIVVYVNGGWSWAEWSPCSNRCGRGWQKRTRTCTNPAPLN
 GGAFCEGQAFQKTACTTVCVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTD
 GLCVLNQRTLNDPKSHPLETSGDVALYAGLVVAVFVVAVLMAVGIVYRRNCRDFDITDSSAALTGG
 FHPVNFKTARPNNPQLLHPSAPPDLTASAGIYRGPVYALQDSADKIPMTNSPLLDPLPSLKIKVYNSSTI
 GSGSGLADGADLLGVLPPGTYPGDFSRDTHFLHLSASLSQHLGLPRDPSSSVSGTFGCLGGRLSLPG
 TGVSLLPNGAIPQGFYDLYLHINKAESTLPLSEGSQTVLSPSVTCGPTGLLLCRPVVLTVPHCAEVIA
 GDWIFQLKTAHQGHWEVVTLDEETLNTPCYCQLEAKSCHILLDQLGTVYFMGESYSRSYAVKRLQLAIF
 APALCTSLEYSRLRVYCLEDPVALKEVLELERTLGGYLVEEPKPLLKDSYHNLRLSLHDIPHAHWRSKL
 LAKYQEIFFYHVWNGSQRALHCTFTLERHSLASTEFTCKVCVRQVEGEGQIFQLHTTLAETPAGSLDALC
 SAPGNAITTLQGPYAFKIPLSIRQKICSSLDAPNSRGNDRLLAQKLSMDRYLNYFATKASPTGVILDLW
 EARQQDDGDLNSLASALEEMGKSEMLVAMATDGDC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

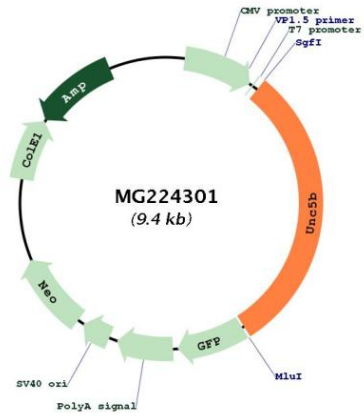


ACCN: NM_029770

ORF Size: 2835 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:	<ol style="list-style-type: none">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:	NM_029770.3
RefSeq Size:	5867 bp
RefSeq ORF:	2838 bp
Locus ID:	107449
UniProt ID:	Q8K1S3
Cytogenetics:	10 31.52 cM
Gene Summary:	Receptor for netrin required for axon guidance. Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding. Axon repulsion in growth cones may be caused by its association with DCC that may trigger signaling for repulsion (By similarity). Functions as netrin receptor that negatively regulates vascular branching during angiogenesis (PubMed:15510105). Mediates retraction of tip cell filopodia on endothelial growth cones in response to netrin (PubMed:15510105). It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. Mediates apoptosis by activating DAPK1. In the absence of NTN1, activates DAPK1 by reducing its autoinhibitory phosphorylation at Ser-308 thereby increasing its catalytic activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224301