

## Product datasheet for **MC222798**

### Unc5b (NM\_029770) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Unc5b (NM_029770) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Unc5b
Synonyms:	6330415E02Rik; A630020F16; D10Bwg0792e; Unc5h2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>MC222798 representing NM\_029770  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGCCCGAGCGGGGTGCGGAGCGGCTGCTGCTGGCGCTGCTGCTTTGCTGGGATCCGACACCGA  
 GCCTAGCAGGCGTTGACTCTGCTGGCCAGGTGCTCCAGACTCCTACCCATCAGCCCTGCGGAGCAGCT  
 GCCGTAATTCCTATTGGAGCCACAGGACGCTACATCGTAAAGAACAAGCCAGTGGAACTGCACTGCAGA  
 GCCTTCCCTGCCACGCAGATCTACTTCAAGTGAATGGCGAGTGGGTGAGCCAGAATGACCACGTACAC  
 AGGAGAGCCTGGATGAGGCCACAGGCTTGGGGTGCAGAGGTGCAGATCGAGGTGTACGGCAGCAAGT  
 GGAGGAACTCTTCGGGCTCGAGGACTACTGGTCCAGTGCCTGGGCTGAGCTCTTCGGGAACTACCAAG  
 AGTCGCCGAGCCTACATCCGATTGCCTACTTGCAGCAAGAACTTTGACCAGGAGCCTCTGGCCAAGGAGG  
 TACCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCACCGAGGGAGTGCCTGTGGCTGAGGTGGAATG  
 GCTCAAGAATGAAGATGTATTGACCCGCTCAGGACACTAACTTCTGCTCACCATTGACCACAACCTC  
 ATCATCCGCCAGGCGCGCTCTCAGACACGGCCAACTACACCTGTGTGGCCAAGAATATCGTGGCCAAGC  
 GCCGGAGCACCACGGCCACAGTCATCGTCTATGTGAATGGAGGCTGGTCCAGCTGGGCAGAGTGGTACC  
 CTGTTCCAATCGCTGTGGCCGAGGCTGGCAGAAGCGTACTCGGACCTGCACCAATCCAGCCCACTCAAT  
 GGAGGGCGCTTCTGTGAGGGACAGGCTTCCAGAAGACAGCTTGCACCACCGTGTGCCAGTGGATGGAG  
 CGTGGACCGAGTGGAGCAAGTGGTCTGCCTGCAGCACAGAGTGTGCGCACTGGCGCAGCCGCGAGTGCAT  
 GGCACCGCCACCCAGAACCGAGGCGGTGACTGCAGCGGGACGCTACTTACTCCAAGAAGTGCAGTGTG  
 GGGCTGTGCGTGTGAATCAGAGAAGCTAAACGACCTAAAAGCCACCCCTGGAGACATCGGGAGATG  
 TGGCTGTACGCAGGCTTGTGGTGGCGCTTTGTGGTGGTAGCGGTTCTCATGGCCGTGGGAGTGTGAT  
 CGTATACCGGAGAACTGCCGGACTTCGACACGGACATCACCGACTCCTCTGCGGCCCTCACTGGTGGC  
 TTCACCTGTCAACTTCAAGACTGCAAGGCCAACAAACCCGAGCTCCTGCACCCGTCCGCCCTCCAG  
 ACCTAACGGCCAGTGTGGCATCTACCGCGGCCTGTGTATGCCCTGCAGGACTCCGCCGACAAGATCCC  
 CATGACTAATTCGCCCTGCTGGATCCCCTGCCAGCCTCAAGATCAAGGTCTATAACTCCAGCACCATC  
 GGTTCGGGTCTGGCCTGGCTGATGGAGCCGACCTGCTGGGTGTCTCCCGCGGGCACGTACCCAGGGC  
 ATTTCTCCCGGGACACCCATTTCTGCACCTGCGCAGTGCACGCTTGGTCCCAGCACCTCTGGGCT  
 ACCTCGGGACCCAGCAGCAGTGTACGCGCACCTTTGGTTGCCTGGGAGGAAGGCTGAGCTCCCCGGC  
 ACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTTCCAGGGCAAGTCTATGACCTGTATCTACATA  
 TCAACAAGGCCGAAAGCACCCCTCCCACTTTCAGAAGGTTCCAGACAGTATTGAGCCCTCGGTGACCTG  
 TGGGCCACAGGCTACTCCTGTGCCGCCCTGTGTCCTCACCGTGCACCACTGTGCTGAAGTCATCGCT  
 GGAGACTGGATCTTTCAGCTCAAGACCCAGGCCATCAGGGCCACTGGGAGGAGGTGGTACCTTGGATG  
 AGGAGACCCTCAACACACCCTGCTACTGCCAGCTGGAGGCTAAGTCTGCCACATCCTGTGGACCAGCT  
 GGGTACCTACGTATTCATGGGCGAGTCTACTCTCGCTCTGCAGTCAAGCGGCTCCAGCTGGCCATCTTC  
 GCCCAGCCCTCTGCACCTCCCTGGAGTATAGCCTCAGGTCTACTGTCTGGAGGACACACCTGTAGCAC  
 TGAAGGAGGTCTGGAGCTGGAGAGGACTCTGGGTGGCTACTTGGTGGAGGAGCCCAAGCCTTTGCTCTT  
 TAAGGACAGTTACCACAACCTACGCTCTCCCTCCATGACATCCCCATGCCACTGGAGGAGCAAATA  
 CTGGCCAAGTACCAGGAGATTCCTTCTACCACGTCTGGAATGGCAGCCAGAGAGCCCTGCACTGCACTT  
 TCAACCCTGGAGAGGCATAGCCTGGCCTCCACGGAGTTCACCTGTAAGGTCTGCGTGCAGGAGTCAAGG  
 GGAAGGCCAGATTTTCCAGCTGCACACAACGTTGGCCGAGACGCTGCTGGCTCCCTGGATGCTCTCTGC  
 TCTGCCCGGGCAATGCCATCACACCCAGCTGGGACCTATGCCTTCAAGATACCCCTGTCCATCCGCC  
 AAAAGATCTGCAGCAGCCTGGACCCCCAACTCCCGGGCAACGACTGGAGGCTGTTGGCGCAGAAGCT  
 GTCCATGGACCGTACCTAACTACTTCGCCACCAAAGCTAGTCCACAGGTGTATCTTAGACCTCTGG  
 GAAGCTCGGCAACAGGATGACGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGCAAGAGTG  
 AGATGCTGGTAGCCATGGCCACAGATGGCGATTGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

<b>ACCN:</b>	NM_029770
<b>Insert Size:</b>	2838 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_029770.2</a> , <a href="#">NP_084046.2</a>
<b>RefSeq Size:</b>	5867 bp
<b>RefSeq ORF:</b>	2838 bp
<b>Locus ID:</b>	107449
<b>UniProt ID:</b>	<a href="#">Q8K1S3</a>
<b>Cytogenetics:</b>	10 31.52 cM
<b>Gene Summary:</b>	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]