

## Product datasheet for **MC220874**

### Unc5b (BC057560) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Unc5b (BC057560) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Unc5b
Synonyms:	6330415E02Rik; A630020F16; D10Bwg0792e; Unc5h2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >BC057560  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGCCCGAGCGGGGTGCGGAGCGGCTGCTGCTGGCGCTGCTGCTTTGCTGGGATCCGACACCGA  
 GCCTAGCAGGCGTTGACTCTGCTGGCCAGGTGCTCCAGACTCCTACCCATCAGCCCTGCGGAGCAGCT  
 GCCGTACTTCTATTGGAGCCACAGGACGCTACATCGTAAAGAACAAGCCAGTGGAACTGCACTGCAGA  
 GCCTTCCCTGCCACGCAGATCTACTTCAAGTGAATGGCGAGTGGGTGAGCCAGAATGACCACGTACAC  
 AGGAGAGCCTGGATGAGGCCACAGGCTTGGGGTGCAGAGGTGCAGATCGAGGTGTACGGCAGCAAGT  
 GGAGGAACTTTCGGGCTCGAGGACTACTGGTCCAGTGCCTGGGCTGAGCTCTTCGGGAACTACCAAG  
 AGTCGCCGAGCCTACATCCGATTGCTACTTGCAGCAAGAATTTGACCAGGAGCCTCTGGCCAAGGAGG  
 TACCCTTGGATCATGAGGTCTTCTGCAGTGCCGCCACCGGAGGGAGTGCCTGTGGCTGAGGTGGAATG  
 GCTCAAGAATGAAGATGTATTGACCCGCTCAGGACACTAATTCCTGCTCACCATTGACCACAACCTC  
 ATCATCCGCCAGGCGCCCTCTCAGACACGGCCAACTACACCTGTGTGGCCAAGAATATCGTGGCCAAGC  
 GCCGGAGCACCACGGCCACAGTCATCGTCTATGTGAATGGAGGCTGGTCCAGCTGGGCAGAGTGGTACC  
 CTGTTCCAATCGCTGTGGCCGAGGCTGGCAGAAGCGTACTCGGACCTGCACCAATCCAGCCCCACTCAAT  
 GGAGGGCGCTTCTGTGAGGGACAGGCTTCCAGAAGACAGCTTGCACCACCGTGTGCCAGTGGATGGAG  
 CGTGGACCGAGTGGAGCAAGTGGTCTGCCTGCAGCACAGAGTGTGCGCACTGGCGCAGCCGCGAGTGCAT  
 GGCACCCGCCACCCAGAACGGAGGCCGTGACTGCAGCGGGACGCTACTTGACTCCAAGAAGTGCAGTGT  
 GGGTGTGCGTGTGACCTGGAGACATCGGGAGATGTGGCACTGTACGAGGCCCTGTGGTGGCCGCTCT  
 TTGTGGTGTAGCGGTTCTCATGGCCGTGGGAGTGCATACCGGAGAAACTGCCGGGACTTCGACAC  
 GGACATACCGACTCCTCTGCGGCCCTCACTGGTGGCTTCCACCCTGTCAACTTCAAGACTGCAAGGCC  
 AACAAACCCGAGCTCCTGCACCCGTCGCCCTCCAGACCTAACGGCCAGTGTGGCATCTACCGGGGC  
 CTGTGTATGCCCTGCAGGACTCCGCCACAAGATCCCCATGACTAATTCGCCCTGCTGGATCCCCTGCC  
 CAGCCTCAAGATCAAGGTCTATAACTCCAGCACCATCGTTCTGGGTCTGGCCTGGCTGATGGAGCCGAC  
 CTGCTGGGTGTCTCCCGCCGGGACGTACCCAGGCGATTTCTCCGGGACACCCATTTCTGCACCTGC  
 GCAGTGCACGCTTGGTCCCAGCACCTCTGGGCTACCTCGGGACCCAGCAGTGTACGCGGCAC  
 CTTTGGTTGCCTGGGAGGAAGGCTGAGCCTCCCGGCACAGGGGTGAGCCTGTTGGTACCAATGGAGCC  
 ATTCGCCAGGGAAGTTCTATGACCTGTATCTACATATCAACAAGGCCGAAAGCACCTCCCCTTTCCAG  
 AAGGTTCCAGACAGTATTGAGCCCTCGGTGACTGTGGGCCACAGGCTACTCCTGTGCCGCCCTGT  
 CGTCTCACCGTGCCTGCTGAAGTCAATCGCTGGAGACTGGATCTTTAGCTCAAGACCCAGGCC  
 CATCAGGGCCACTGGGAGGAGTGGTGAACCTGGATGAGGAGACCCTCAACACACCTGCTACTGCCAGC  
 TGGAGGCTAAGTCTGCCACATCCTGCTGGACCAGTGGTACCTACGTATTCATGGGCGAGTCTACTC  
 TCGCTCTGCAGTCAAGCGGCTCCAGTGGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGC  
 CTCAGGGTCTACTGTCTGGAGGACACCTGTAGCACTGAAGGAGTCTGGAGCTGGAGAGGACTCTGG  
 GTGGCTACTTGGTGGAGGAGCCCAAGCCTTTGCTCTTTAAGGACAGTTACCACAACCTACGCCTCTCCCT  
 CCATGACATCCCCATGCCACTGGAGGAGCAAACTACTGGCCAAGTACCAGGAGATTCCCTTCTACCAC  
 GTCTGGAATGGCAGCCAGAGAGCCCTGCACTGCACTTTCACCCTGGAGAGGCATAGCCTGGCCTCCACGG  
 AGTTCACCTGTAAGGTCTGCGTGCAGGAGTCAAGGGGAAGGCCAGATTTTCCAGCTGCACACAACGTT  
 GGCCGAGACGCTGCTGGCTCCCTGGATGCTCTGCTCTGCCCGGGCAATGCCATCACCACCCAGCTG  
 GGACCCTATGCCTTCAAGATACCCTGTCCATCCGCCAAAAGTCTGCAGCAGCCTGGACGCCCCCAACT  
 CCCGGGGCAACGACTGGAGGCTGTTGGCGCAGAAGCTGTCCATGGACCGGTACCTAAACTACTTCGCCAC  
 CAAAGCTAGTCCACAGGTGTATCTTAGACCTCTGGGAAGCTCGGCAACAGGATGACGGGGACCTCAAC  
 AGCCTGGCCAGTGCCTTGGAGGAGATGGCAAGAGTGAAGTGTGGTGGTACCATGGCCACAGATGGCGATT  
 GCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	BC057560
<b>Insert Size:</b>	2805 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>	<u><a href="#">BC057560</a></u> , <u><a href="#">AAH57560</a></u>
<b>RefSeq Size:</b>	3672 bp
<b>RefSeq ORF:</b>	2804 bp
<b>Locus ID:</b>	107449
<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]