

Product datasheet for **MC229205**

Unc5c (NM_001293561) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unc5c (NM_001293561) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Unc5c
Synonyms:	B130051O18Rik; rcm; Unc5h3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC229205 representing NM_001293561
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGAAAGGTCTGAGGGCGACAGCGCCGCTGCGGACTGGGACTAGGATACTTGCTGCAGATGCTTG
 TGTACCTGCCCTGGCCCTGCTAAGCGCCAGTGGCACCGCTCCGCCCTCAAGATGATGAATTTTTCA
 CGAACTCCAGAAACCTTTCCATCTGACCCACCTGAGCCATTGCCACACTTCTCATTGAGCCCGAGGAA
 GCTTACATTGTGAAGAACAAGCCTGTGAACCTGTATTGTAAGCCAGCCCTGCCACCCAGATCTACTTCA
 AGTGCAACAGCGAGTGGGTTTCATCAGAAGGACCACGTAGTAGACGAGAGAGTAGAAGAACTCTGGTCT
 AATTGTGAGAGAAGTGAACATTGAGATTTACGCCAGCAGGTGGAGAACTGTTTGGGCCTGAAGATTAC
 TGGTGCCAGTGTGTGGCCTGGAGCTCAGCAGGCACTACGAAGAGTCGGAAGGCATACGTGCGCATTGCGT
 ATCTGCGGAAGACATTCGAGCAGGAACCTTGGGAAAGGAAGTGTCTTGGAGCAGGAAGTCTTACTCCA
 GTGTCGGCCACCTGAAGGGATCCAGTGGCTGAGGTAGAATGGCTAAAGAATGAAGACATAATTGATCCT
 GCTGAAGATCGGAACTTTTATATTACTATCGATACAACCTGATCATCAAGCAAGCCCGACTCTCAGATA
 CAGCAAATTATACCTGTGTTGCCAAAAATATTGTTGCCAAGAGAAAAAGCACACAGCCACTGTCATCGT
 GTATGTTAATGGTGGCTGGTCCACTGGACAGAGTGGTCTGTGTGTAACAGCCGCTGTGGGGCAGGATAT
 CAGAAACGCACAAGAACCTGCACCAACCCAGCCCCACTCAATGGTGGGCCTTCTGTGAGGGCAGAGTG
 TGCAGAAAATAGCATGCACTACGTTATGTCCAGTGGATGGTAGGTGGACTTCATGGAGCAAATGGTCAAC
 CTGTGGGACTGAATGCACCCACTGGCGCAGGAGGAGTGTACAGCACCAGCCCCAAGAACGGGGTAAG
 GACTGTGATGGCTGGTCTCCAATCCAAGAAGTGCAGTGTGGCTGTGCATGCAGGGATTCAATTTACC
 CCATTTCACTGAGCACAGACCCAGAATGAATATGGATTTTCTCTGCTCCTGACTCAGATGATGTGGC
 TCTCTACGTGGGATTGTGATCGCTGTAACAGTCTGTCTGGCGATCACTGTTGTGGTGGCCCTGTTGTG
 TATCGGAAGAACCACCGTACTTTGAGTCTGACATCATTGACTCCTCAGCACTCAATGGCGGCTTTCAGC
 CTGTGAACATCAAGGCTGCCAGACAAGATCTCCTGGTGTCCCCCTGACCTCACCTCAGCTGCAGCCAT
 GTACAGGGGACCTGTCTATGCTCTGCATGATGTCTCAGACAAAATCCCAATGACCAACTCTCCAATTCTG
 GACCCACTACCCAATTGAAAATCAAAGTGTACAACAGCTCAGGTGCTGTCACTCCTCAGGATGACCTTG
 CCGAGTTCTCATCCAAGTGTACCCAGATGACCCAGTCTTGTAGAGAATGAGGCCCTTAACCTGAA
 GAACCAGAGCCTCGAAGACAGACTGACCCATCCTGCACAGCATTGGTACCTTCAACTCTTTGGGGT
 CACCTCATATTCTAATTCAGGAGTAAGCTTGTGATTCCCGCTGGGGCCATTCTCAGGGGAGAGTCT
 ATGAAATGTATGTGACTGTACACAGGAAAGAAAATATGAGGCCCCCATGGAAGACTCTCAGACCCTACT
 TACCCCTGTGGTGAAGTGTGGGCCTCTGGAGCTCTGCTGACCCGCCCTGTATCCTCACTCTGCATCAC
 TGTGCAGACCCAGCACCAGGACTGGAAGATCCAGCTCAAAAACAGGCAGTGCAGGGACAATGGGAGG
 ATGTTGTGGTGGTTGGGGAGGAGAACTTACAACCCCTGTTACATTAGCTGGATGCAGAGGCTTGCCA
 TATCCTCACAGAGAACCTCAGTACCTATGCCCTGGTGGGCGAGTCCACCACCAAGCAGCTGCCAAGCGT
 CTTAAACTGGCCATCTTTGGGCCCTCTGCTGCTTCCCTGGAGTACAGCATTAGAGTCTACTGCCTGG
 ATGACACACAGGATGCCCTGAAGGAAGTCTACAACCTGGAGAGGCAAATGGGAGGACAGCTCCTAGAAGA
 ACCCAAGGCTCTTCAATTTAAAGGCAGCATCCACAACCTGCGCCTGTCTATTGATGACATCGCCATTCC
 CTCTGGAAGAGCAAATGCTGGCTAAGTATCAGGAAATTCATTTTACCACATCTGGAGTGGCTCTCAAA
 GAAACCTCCACTGCACCTTCACTCTGAAAAGACTCAGCCTAAACACAGTGAAGTGGTTTGCAAACCTCTG
 TGTGCGGCAGGTTGAAGGAGAAGGGCAGATCTTCCAGCTCAACTGTACTGTGTCAGAGGAACCTACTGGC
 ATCGACTTACCTCTCCTGGACCTGCTAGTACCATCACCACTGTACCCGACCAAGTGTCTTTCAGCATT
 CTCTCCCTATCCGGCAGAAGCTATGCAGCAGCCTGGATGCCCTCAAACAAGAGGCCATGACTGGAGGAT
 GCTGGCCATAAACTCAACCTGGACAGGTAATTGAATTACTTTGCCACCAATCGAGCCCAACTGGCGTA
 ATCCTGGATCTTTGGGAAGCACAGAACTCCCAGATGAAAACCTGAGCATGCTGGCAGCCGCTCTGGAAG
 AAATGGGAAGACATGAGACAGTGGTGTCTTGGCAGCAGAAGGACAGTAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001293561
Insert Size:	2853 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001293561.1</u> , <u>NP_001280490.1</u>
RefSeq Size:	9355 bp
RefSeq ORF:	2853 bp
Locus ID:	22253
Cytogenetics:	3 65.57 cM
Gene Summary:	<p>Receptor for netrin required for axon guidance (PubMed:22685302, PubMed:10399920). Mediates axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding (PubMed:10399920, PubMed:22685302). NTN1/Netrin-1 binding might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed:28483977). Axon repulsion in growth cones may also be caused by its association with DCC that may trigger signaling for repulsion (PubMed:10399920). Might also collaborate with DSCAM in NTN1-mediated axon repulsion independently of DCC (PubMed:22685302). Also involved in corticospinal tract axon guidance independently of DCC (PubMed:9126743, PubMed:9389662, PubMed:12451134). Involved in dorsal root ganglion axon projection towards the spinal cord (By similarity). It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>