

Product datasheet for **RN217360**

Unc5d (NM_001107319) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unc5d (NM_001107319) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Unc5d
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN217360 representing NM_001107319

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGACAGGGGCTGCAGACCCGACGCCGGGGCGCGCTGGTGGCTCCCATGGCTTGGACTCTGTTTCT
GGGCGCGGGGGCTGAGGCTGCCGAGGAGCCGACAGTGGCGAAGTTCTCCCGACTCCATCCCGTCTGC
CCCTGGAACCTCTGCCCATTTTCATAGAGGAGCCTGAAGATGCCTACATCATCAAAAGCAACCCTATCGCA
CTCAGGTGCAAAGCCAGGCCCGCCATGCAGATCTTCTTCAAATGCAACGGGGAGTGGGTCCATCAGAACG
AGCACGTGTGAGAAGAAAGCCTGGATGAGAGCTCAGGCTTGAAGTCCGGGAGGTGTTTATCAATGTCAC
CAGGCAGCAGGTGGAGGACTTCCATGGCCCGAGGACTACTGGTCCAGTGTGTTGCGTGGAGCCACCTT
GGAACCTCAAGAGTAGGAAAGCTTCCGTGCGCATAGCCTATTTACGAAAAACTTCGAGCAAGATCCAC
AAGGCAGGGAGGTTCCTATTGAAGGCATGATCGTATTGCACTGCCGCCCGCAGAGGGAGTTCAGCAGC
AGAGGTGGAATGGCTGAAAAATGAAGAGCCATTGACTCTGAACAGGATGAGAACATTGACACCAGGGCT
GACCATAACCTGATCATCAGGCAGGCCCGCTCTCAGACTCGGGGAATTACACCTGTATGGCAGCCAACA
TCGTGGCCAAGAGGAGGAGCCTGTCAGCAACTGTGGTGGTCTACGTGAATGGAGGCTGGTCTTCCTGGAC
AGAGTGGTCAGCCTGCAATGTTGCTGTGGTAGAGGATGGCAGAAACGTTCCCGGACCTGCACCAACCCC
GCTCCTCTCAATGGTGGGGCCTTTTGTGAGGGAATGTCAGTGCAGAAAAAACCTGCAGTCTTTGTGTC
CTGTGGACGGCAGCTGGGAAGTATGGAGTGAATGGTCACTGTCAGCCAGAGTGTGAACATCTTCGCAT
CCGTGAGTGCACAGCTCCACCCCAAGAAACGGGGCAAGTTCGTGAAGGGCTCAGCCAGGAATCTGAA
AACTGCACGGATGGTCTCTGCATTCTAGATAAAAAACCTTTCATGAAATAAAACCCCAAGATGGAGTA
GGCGGACGATTGAGAATGCCAGCAGCATTTGCTTTGTAAGGGCTTGGGTGCAGCCGTTGTAGCCGTTGC
GGTCTGGTTCATTGGTGTCAACCCTCTACAGAGCGGAGCCATAGTGACTACGGAGTGGACGTCAATTGACTCT
TCTGCATTGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTTCGTCAGGAAATTCCTCCTCCTGA
ATCCTGCCATGCATCCAGATCTGACTGTGAGCCGGACGTACAGCGGGCCCATCTGTCTGCAGGATCCACT
GGACAAGGAGCTCATGACAGAGTCTCACTCTTCAACCCTCTCTGACATCAAAGTCAAAGTCCAGAGC
TCATTCATGGTTTCCCTGGGAGTGTCTGAGAGAGCCGAGTACCATGGCAAGAATCACTCCGGGACCTTCC
CCCATGGAACAACCGTGGATTTAGTACCATACATCCCAGAAACAAGACTCCGTACATCCAAAATCTGTC
GTCAGTCCCACAAGGACGGAGCTGAGGACAACGGTGTCTTTGGACACTTAGGGGGCGCTTAGTAATG
CCAAATACAGGGGTGAGTCTACTCATACCACATGGTGCCATCCCAGAGGAGAATTCCTGGGAGATTTATA
TGTCAATCAACCAAGGTGAACCCAGTCTGCAGTCAAGTGGATCTGAGGTCTCCTGAGTCCCTGAAGTCA
CTGTGGGCTCCAGATATGCTTGTGCAACTCCCTTTCAGTGCATCCCTCACTGTGCAGACGTCACT
TCAGAGCATTGGAACATCCACTTGAAGAAGAGAACGCAGCAGGAAAAGTGGGAGGAAGTAATGTCAGTGG
AGGATGAGTCCACATCCTGTTACTGCCTCTTGGATCCCTTCGCTGTGATGTGCTGCTTGTAGCTTTGG
AACGTATGCCCTCACGGGAGAGCCCATCACAGACTGTGCGGTAAGCAGCTCAAGGTGGCTGTGTTTGGC
TGCATGTCCTGTAACCTTGGATTACAACCTGAGAGTTATTGTGTGGACAACACTCCTTGTGCATTTT
AGGAAGTGGTTTCTGATGAACGGCACCAAGGCGCCAGCTCCTGGAGGAGCCAAAGCTGCTTCATTTCAA
AGGAATACATTCAGTCTTCAGATCTCTGTCTTGCATCCCTCCATTCCTCTGGAGGATCAAACCATTC
ACTGCATGCCAGGAAGTCCCCTTCTCCAGAGTGTGGAGCAGCAACCGGCAGCCCTGCATTGTGCCTTCT
CCCTGGAGCGCTACACGCCCACCACCAGCTGTCTGCAAAATCTGCATTGCGCAGCTCAAAGGCCA
TGAACAGATCCTCAAGTGCAGACATCCATCCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAA
GAGGACAGTACTTCCCTGCACAGACTGGCCCGAAAGCCTTCAAATTCCTATTCCATCAGGCAGAGGA
TCTGCGCAACGTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCAT
CAATAGGAATTTATCCTATTTTGTACACAAAGCAGTCCCTCTGCTGTCAATTTGAACTCTGGGAAGCT
CGTCATCAACAGGACGGGATCTTACTCGCTCGCCTTGAAGAGATTGGGAGGACACACAGCA
AACTATCAAACATCACAGAGCCCAGCTCGATGCACTGACTTCAACTACAGCAGGCAAAATGGACTCTA
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001107319
Insert Size:	2871 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_001107319.2</u> , <u>NP_001100789.2</u>
RefSeq Size:	3057 bp
RefSeq ORF:	2871 bp
Locus ID:	306534
UniProt ID:	<u>F1LW30</u>
Cytogenetics:	16q12.3
Gene Summary:	Receptor for the netrin NTN4 that promotes neuronal cell survival. Plays a role in cell-cell adhesion and cell guidance. Receptor for netrin involved in cell migration. Plays a role in axon guidance by mediating axon repulsion of neuronal growth cones in the developing nervous system upon ligand binding. May play a role in apoptosis in response to DNA damage. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand (By similarity). Mediates cell-cell adhesion via its interaction with FLRT3 on an adjacent cell (By similarity).[UniProtKB/Swiss-Prot Function]