

Product datasheet for **RR217360**

Unc5d (NM_001107319) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR217360 representing NM_001107319
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGACAGGGGCTGCAGACCCGACGCCGGGGCGCGCTGGTGGCTCCCATGGCTTGGACTCTGTTTCT
 GGGCGCGGGGGCTGAGGCTGCCCGAGGAGCCGACAGTGGCGAAGTTCTTCCCGACTCCATCCCGTCTGC
 CCCTGGAAGCTCTGCCCCATTTATAGAGGAGCCTGAAGATGCCTACATCATCAAAAGCAACCCATATCGCA
 CTCAGGTGCAAAGCCAGGCCCGCCATGCAGATCTTCTTCAAATGCAACGGGGAGTGGGTCCATCAGAACG
 AGCACGTGTGAGAAGAAAGCCTGGATGAGAGCTCAGGCTTGAAGTCCGGGAGGTGTTTATCAATGTCAC
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 GTCAGTCCCACAAGGACGGAGCTGAGGACAACGGTGTCTTTGGACACTTAGGGGGCGCTTAGTAATG
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217360 representing NM_001107319
 Red=Cloning site Green=Tags(s)

MGTGAADRSRGARWWLPWLGLCFWAAGAEAARGADSGEVL PDSIPSAPGTLPHFIEEPEDAYI IKSNP
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 DYCQCVAVSHL GTSKSRKASVRIAYLRKNFEQDPQGREVPIEGMIVLHCRPPEGVPA
 AEVWLKNEEPI DSEQDENIDTRA DHNLIIRQARLSDSGNYTCMAANIVAKRRSL
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 ITCTALCPVDGSEVWSEWVCSPECEHLRIRECTAPPPRNGGKFCEGLSQESE
 NCTDGLCILDKKPLHEIKPQRWSRRGIENASDIALYSGLGAAVVAVAVL VIGVTLYR
 RSHSDYGVVIDS SALTGGFQTFNFKTVRQGNL LLLNPAMHPDLTVSRTYSGPI
 CLQDPLDKELMTESSLFNPLSDIKVKVQS SFMVSLGVSERAEYHGKNHSGTFPHG
 NNRGFSTIHPRNKTPYIQNLSSLPRTRELRTTG VFGHLGGRLVM PNTGVSLLIP
 HGAIPEENSWEIYMSINQGEPSLQSDGSEVLLSPEVTCGPPDMLVTPPFALTI
 PHCADVS SEHWNIHLKKRTQQGWEEVMSVEDESTSCYCLLDPFACHVLLDSFGTYAL
 TGEPITDCAVKQLKVAVFG CMSCNSLDYNLRVYCVDNTPCAFQEVVSDERHQGGQL
 LLEPKLLHFKGNTFSLQISVLDIPPFLWRIKPF TACQEVFPF SRVWSSNRQPLHCAF
 SLERYTPTTTL SCKICIRQLKGHEQILQVQTSILESERETITFFAQ EDSTFPAQT
 GPKAFKIPYSIRQRICATFDTPNAKGKDWQMLAQKNSINRNL SYFATQSSPSAVIL
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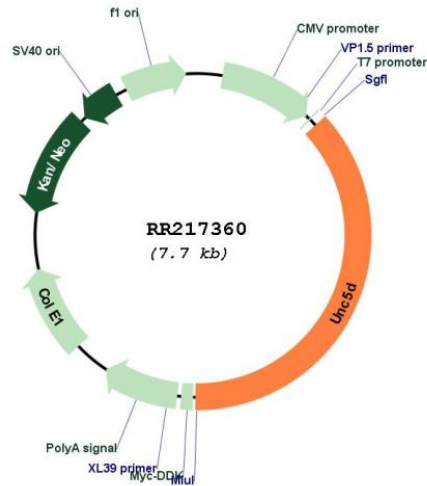
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001107319

ORF Size: 2868 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:

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_001107319.2](#), [NP_001100789.2](#)

RefSeq Size: 3057 bp

RefSeq ORF: 2871 bp

Locus ID: 306534

UniProt ID: [F1LW30](#)

Cytogenetics: 16q12.3

MW: 106.5 kDa

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]