

Product datasheet for **RC212389**

UNC5A (NM_133369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UNC5A (NM_133369) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UNC5A
Synonyms:	UNC5H1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212389 representing NM_133369
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTCGGCCCGCCTGTGGCCAGCGCTCCTGGCATAAGTCTCGCCGCTTGCTCCGCGCTCGG
 GTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCCTGGTGCCAACCCGACCTGCTTCCCACCTCCT
 GGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCC
 ACGCAGATCTTCTCAAGTGCAACGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAG
 ACGGGAGCAGTGGGCTGCCACCATGGAGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTT
 CGGGCTGGAGGAATACTGGTGCCAGTGCCTGGCATGGAGTCTCCTCGGCCACCAAGAGTCAGAAGGCC
 TACATCCGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCTGGAGC
 AGGGCATCGTGTGCCCTGCCGTCCACCGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGA
 GGACCTGGTGGACCCGCTCCTGGACCCCAATGTATACATCACGGGGAGCACAGCCTGGTGGTGCAGAC
 GCCCGCCTTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCAGCTCGCCGAGCGCCT
 CCGCTGCTGTATCGTCTACGTGGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTGGCCCTGTGGGCTGGA
 CTGACCCACTGGCGGAGCCGTGAGTGTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC
 ACTGACCTGGACACCCGCAACTGTACCAGTACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTGG
 CCCTCTATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTTTA
 TTGCCGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTACCTCAGGCTTCCAGCCC
 GTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTGCTCACCATCCAGCCGACCTCAGCACCAACCA
 CCACCACTACCAGGGCAGTCTCTGTCCCGCAGGATGGGCCAGCCCAAGTTCAGCTCACCATTGAGTGG
 GCACCTGCTCAGCCCCCTGGGTGGCGGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAG
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 CCTCAGCGTGGCTGCCGCAAGCGCCTCAAGTCTTCTGTTTGGCGCCGTGGCCTGCACCTCCCTCGA
 GTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAG
 CAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGCGCC
 TATCCATCCAGATGTGCCAGCTCCCTGTGGAAGAGTAAGTCCCTTGTGAGCTACCAGGAGATCCCTT
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 GGTGGGCCCCAGTGCCCTCAAGATCCCTTCTCATTTCGCGAGAAGATAATTTCCAGCCTGGACCCACCC
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 CAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGCCAGCCAGCAGCTGGCCTTTCACAGTGTGAGGCT
 GAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212389 representing NM_133369
 Red=Cloning site Green=Tags(s)

MAVRPGLWPALLGIVLAAWLRGSGAQQSATVANPVPGANPDLLPHFLVEPEDVYIVKNKPVLLVCKAVPA
 TQIFFKCNGEWVRQVDHVIERSTDGSSGLPTMEVRINVSRRQVEKVFGL EEWQCVAWSSSGTTKSQKA
 YIRIAYLRKNFEQEPLAKEVSL EQGIVLPCRPEGIPPAEVEWLRNEDLVDP SLDPNVYITREHSLVVRQ
 ARLADTANYTCVAKNIVARRRSASA AVIVYVDGSWSPWSKWSACGLDCTHWSRECS DPAPRNGGEECQG
 TDLDTRNCTSDL CVHTASGPEDVALYVGLI AVAVCLVLLLLVLILVYCRKKEGLDSDVADSSILTS GFQP
 VSIKPSKADNPHELLTIQPD LSTTTTTYQGSLCPRQDGPSPKFQLTNGHLLSPLGGGRHTLHSSPTSEAE
 EFVSRSLSTQNYFRSLPRGTSNM TYGTFNFGGRLMIPNTGISLLIPPDAIPRGKIYEIYLT LHKPEDVRL
 PLAGCQTL LSPIVSCGPPGVLLTRPVILAMDHCGEPSDWSLRLKKQSCGE SWEDVHLGEEAPSHLYY
 CQLEASACYVFTEQLGRFALVGEALSVAAAKRLKLLLFAPVACTSLEYNIRVYCLHDTHDALKEVVQLEK
 QLGGQLIQEPRVLHFKDSYHNLRLSIHDVPSLWKSLLVSYQEIFFYHIWNGTQRYLHCTFTLERVSPS
 TSDLACKLWVWQVEGDGQSF SINFNITKDRFAELLALESEAGVPALVGP SAKIPFLIRQKI ISSLDPP
 CRRGADWRTL AQLHLDSLHLSFFASKPSPTAMILNLWEARHFPNGNLSQLAAAVAGLQPDAGLFTVSEA
 EC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

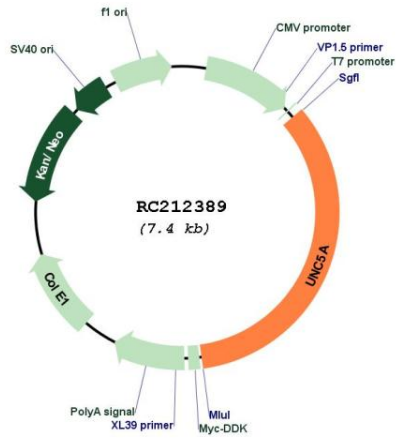
Cloning sites used for ORF Shuttling:



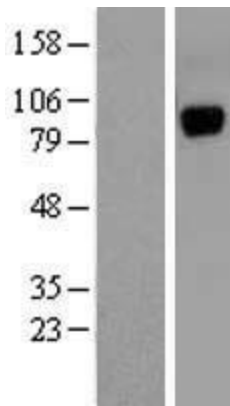
* The last codon before the Stop codon of the ORF

ACCN:	NM_133369
ORF Size:	2526 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:	<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:	NM_133369.3
RefSeq Size:	3749 bp
RefSeq ORF:	2529 bp
Locus ID:	90249
UniProt ID:	Q6ZN44
Cytogenetics:	5q35.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance
MW:	92.8 kDa
Gene Summary:	UNC5A belongs to a family of netrin-1 (MIM 601614) receptors thought to mediate the chemorepulsive effect of netrin-1 on specific axons. For more information on UNC5 proteins, see UNC5C (MIM 603610).[supplied by OMIM, Apr 2004]

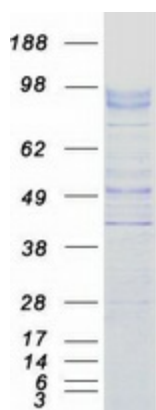
Product images:



Circular map for RC212389



Western blot validation of overexpression lysate (Cat# [LY408832]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212389 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UNC5A protein (Cat# [TP312389]). The protein was produced from HEK293T cells transfected with UNC5A cDNA clone (Cat# RC212389) using MegaTran 2.0 (Cat# [TT210002]).