

## Product datasheet for **RG212389**

### UNC5A (NM\_133369) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UNC5A (NM_133369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UNC5A
Synonyms:	UNC5H1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212389 representing NM\_133369  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGTCGGCCCGCCTGTGGCCAGCGCTCCTGGGCATAGTCTCGCCGCTTGCTCCGCGCTCGG  
 GTGCCACGACAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCACCTCCT  
 GGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGTGCTTGTGTGCAAGGCCGTGCCCGCC  
 ACGCAGATCTTCTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAG  
 ACGGGAGCAGTGGGCTGCCACCATGGAGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTT  
 CGGGCTGGAGGAATACTGGTGCCAGTGCCTGGCATGGAGTCTCCTGGGCACCAAGAGTCAGAAGGCC  
 TACATCCGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCTGGAGC  
 AGGGCATCGTGTGCCCTGCCGTCCACCGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGA  
 GGACCTGGTGGACCCGCTCCTGGACCCCAATGTATACATCACGGGGAGCACAGCCTGGTGGTGCAGAC  
 GCCCGCCTTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCGCT  
 CCGCTGTGTATCGTCTACGTGGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTGGCCCTGTGGGCTGGA  
 CTGACCCACTGGCGGAGCCGTGAGTGTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC  
 ACTGACCTGGACACCCGCAACTGTACCAGTGCCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTGG  
 CCCTCTATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCTGTGCTGCTTGTCTCATCCTCGTTTA  
 TTGCCGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTACCTCAGGCTTCCAGCCC  
 GTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTGCTCACCATCCAGCCGACCTCAGCACCAACCA  
 CCACCACTACCAGGGCAGTCTCTGTCCCGCAGGATGGGCCAGCCCAAGTTCAGCTCACCATATGG  
 GCACCTGCTCAGCCCCCTGGGTGGCGGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAG  
 GAGTTCGTCTCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCGAGGCACCAGCAACATGACCT  
 ATGGGACCTTCAACTTCCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATCCCCC  
 AGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTG  
 CCCCTAGCTGGCTGTGAGCCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTGCTCACCC  
 GGCCAGTCATCCTGGCTATGGACCACTGTGGGAGCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAA  
 GCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTAC  
 TGCCAGCTGGAGGCCAGTGCCTGTACGTCTTACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGG  
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 GTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAG  
 CAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGGACAGTTACCACAACCTGCGCC  
 TATCCATCCAGATGTGCCAGCTCCCTGTGGAAGAGTAAGTCCCTTGTGAGCTACCAGGAGATCCCTT  
 TTATCACATCTGGAATGGCACGCAGCGGTACTTGCACCTGCACCTTACCCTGGAGCGTGTGAGCCCGAGC  
 ACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCAGGGCAGAGCTTACGATCAACT  
 TCAACATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCT  
 GGTGGGCCCCAGTGCCTTCAAGATCCCTTCTCATTGCGCAGAAGATAATTTCCAGCCTGGACCCACCC  
 TGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG  
 CCTCAAGCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGCACTTCCCAACGGCAACCT  
 CAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGCCAGCCAGACGCTGGCCTCTTACAGTGTGAGGCT  
 GAGTGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

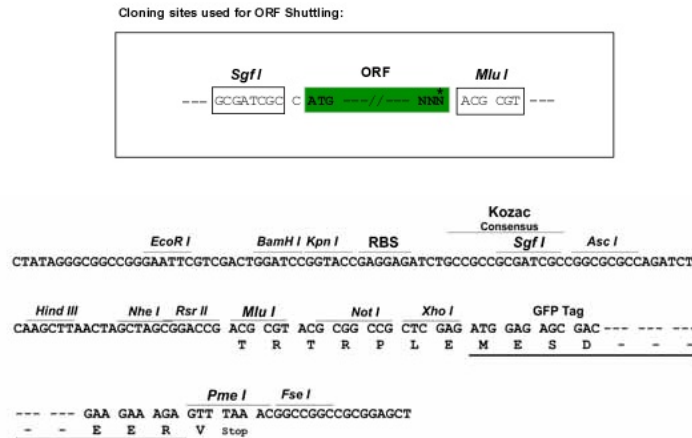
**Protein Sequence:** >RG212389 representing NM\_133369  
Red=Cloning site Green=Tags(s)

MAVRPGLWPALLGIVLAAWLRGSGAQQSATVANPVPGANPDLLPHFLVEPEDVYIVKNKPVLLVCKAVPA  
TQIFFKCNGEWVRQVDHVIERSTDGSSGLPTMEVRINVSRRQVEKVFGLLEEWQCVAWSSSGTTKSQKA  
YIRIAYLRKNFEQEPLAKEVSLEQGIVLPCRPEGIPPAEVEWLRNEDLVDPPLDPNVYITREHSLVVRQ  
ARLADTANYTCVAKNIVARRRSASAAVIVYVDGWSWSPWSKWSACGLDCTHWSRECSDPAPRNGGEECQG  
TDLDTRNCTSDL CVHTASGPEDVALYVGLI AVAVCLVLLLLVLILVYCRKKEGLDSDVADSSILTSGFQP  
VSIKPSKADNPHELLTIQPDLSTTTTTYQGSLCPRQDGPSPKFQLTNGHLLSPLGGGRHTLHSSPTSEAE  
EFVSRSLSTQNYFRSLPRGTSNMTYGTFFNLGGRLMIPNTGISLLIPDAIPRGKIYEIYLT LHKPEDVRL  
PLAGCQTLSPIVSCGPPGVLLTRPVILAMDHCGEPSDWSLRLKKQSCEGSWEDVHLGEEAPSHLYY  
CQLEASACYVFTEQLGRFALVGEALSVAAAKRLKLLLFAPVACTSLEYNIRVYCLHDTHDALKEVVQLEK  
QLGGQLIQEPRVLHFKDSYHNLRLSIHDVPSSLWKSLLVSYQEIFYHIWNGTQRYLHCTFTLERVSPS  
TSDLACKLWVWQVEGDGQSFSINFNITKDTRFAELLALESEAGVPALVGPSAFKIPFLIRQKIISLDDPP  
CRRGADWRTL AQLHLDSHLSFFASKPSPTAMILNLWEARHFPNGNLSQLAAAVAGLGQPDAGLFTVSEA  
EC

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



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:**

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](#)

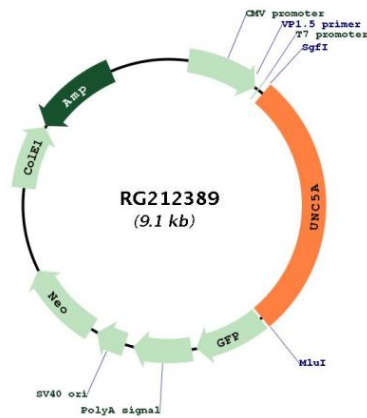
**Cytogenetics:** 5q35.2

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Axon guidance

**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 RG212389