

## Product datasheet for **MC222478**

### Unc5a (NM\_153131) Mouse Untagged Clone

#### Product data:

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Unc5a (NM_153131) Mouse Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | Unc5a                                  |
| Synonyms:                 | mKIAA1976; Unc5h1                      |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-Entry (PS100001)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |



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**Fully Sequenced ORF:** >MC222478 representing NM\_153131  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGTCGGCCCGGCTGTGGCCAGCGCTCCTGGGCATAGTCTCACTGCCTGGCTTCGTGGTTCGG  
 GTGCCAGCAGAGTGCCACAGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTGCCCACTTCTCT  
 GGTAGAGCCGGAGGACGTGTACATTGTCAAGAACAAGCCCGTGTCTGGTGTGCAAGGCTGTGCCCGCC  
 ACCCAGATCTTCTCAAGTGCAACGGGAATGGGTTCCGCCAGGTCGATCACGTCATTGAACGCAGCACTG  
 ACGGCAGCAGCGGATTGCCAACCATGGAGTCCGGATCAACGTATCAAGGCAGCAGGTCGAGAAAGTGT  
 TGGGCTGGAGGAGTACTGGTCCAGTGTGTGGCATGGAGTCTCTCAGGAACCACAAAAGCCAGAAGGCC  
 TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCGCTGGCCAAGGAAGTGTCACTGGAGC  
 AAGGCATTGTGCTACCTGTGCCCCCGGAAGGAATCCCCCAGCTGAGGTGGAGTGGCTCCGAAATGA  
 GGACCTCGTGGACCCCTCCCTCGACCCCAATGTGTACATCACACGGGAGCACAGCCTAGTGTGCGGCAG  
 GCCCGCCTGGCCGACACTGCCAACTACACTGCGTGGCCAAGAACATCGTGGCCCGTCCGGAAGCGCCT  
 CTGCGGCCGTCAATTGTTATGTGAACGGTGGTGGTTCGACGTGGACCGAGTGGTCCGCTGCAGTGCCAG  
 CTGTGGGCGTGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC  
 TGTGAGGGGAGAGTGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTGGATGGGAGCTGGAGCCCAT  
 GGAGTAAGTGGTCAAGCTGCGGGCTTACTGCACCCACTGGCGGAGCCGGAGTGTCCGACCCAGCGCC  
 CCGCAACGGAGGTGAGGAGTGGCGGGTGTGACTGGACACCCGCAACTGTACCAAGTGCCTCTGCCTG  
 CACACCTCTTCCGGCCCCGAGGACGTGGCTCTCTACATCGGCCTCGTCCCGTGGCCGTGCCTCATCT  
 TGCTGTGCTGGTCTCTCGTCTCATCTACTGCCGAAGAAGGAAGGACTGGACTCAGACGTGACTC  
 ATCCATCCTTACCTCAGGCTTCCAGCCTGTCAGCATCAAGCCAGCAAAGCAGACAATCCCCATCTGCTC  
 ACCATCCAACCGACCTCAGCACACCACGACCCTACCAGGGCAGCCTGTGTCCCGGCAGGATGGAC  
 CCAGCCCCAAGTCCAGCTCTCTAATGGTCACTGCTCAGCCACTGGGAGTGGCCGCCATACGCTGCA  
 CCACAGCTCCCCACCTCTGAGGCTGAGGACTTCGTCTCCCGCCTCTCCACCCAAAACACTTTCTGTTCT  
 CTGCCCGCGGTACCAGCAACATGGCCTATGGGACCTTCAACTTCTCGGGGGCCGGCTGATGATCCCTA  
 ACACAGGAATCAGCCTCCTACACCCCGGACGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCAC  
 TCTGCACAAGCCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCTGCTGAGTCTATCGTTAGC  
 TGTGGGCCCCAGGAGTCTGCTCACCCGGCCAGTCATCCTTGCCATGGACCACTGCGGGGAGCCAGTC  
 CCGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCTGTGAGGGCAGCTGGGAGGACGTGCTGCACCTTGG  
 TGAGGAGTCGCCCTCTCATCTCTACTACTGCCAGCTGGAGGCCGGGGCCTGCTATGTCTTACCAGAGCAG  
 CTAGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGT  
 TTGCCCTGTGGCCTGTACGTCCCTCGAGTACAACATCCGAGTGTACTGCCTGCACGACCCACAGTGC  
 TCTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGTGGACAGCTGATCCAGGAGCCCGTGTCTGAC  
 TTCAAAGACAGTTACCACAACCTACGTCTGTCCATCCACGACGTGCCAGCTCCCTGTGGAAGAGCAAGC  
 TCCTTGTGAGTACCAGGAGATCCCTTTTACCACATCTGGAATGGCACTCAGCAGTATCTGCACTGCAC  
 CTTACCCTGGAGCGCGTCAATGCCAGCACGACGACCTGGCCTGCAAGGTGTGGTGTGGCAGGTGGAG  
 GGAGATGGACAGAGCTTCAACATCAACTTTAACAATCACTAAGGACACGAGGTTTGTGAAATGCTGGCTC  
 TGAGAGTGAAGGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTGGCA  
 AAAGATCATTACCAGCCTGGACCCACCTGCAGCCGGGGCAGGACTGGCGAACTCTAGCCAGAAACTT  
 CACCTGGACAGCCATCTTAGTCTTTGCTCCAAAGCCAGCCCTACAGCCATGATCCTCAACCTATGGG  
 AGGCGCGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCCGAGCTGTGGCCGACTGGCCAGCCAGA  
 TGCTGGCCTTTCACCGTGCAGAGGCCGAGT**GCTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_153131

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Insert Size:</b>           | 2697 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq:</b>                | <u><a href="#">NM_153131.3</a></u> , <u><a href="#">NP_694771.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq Size:</b>           | 3974 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq ORF:</b>            | 2697 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 107448                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID:</b>            | <u><a href="#">Q8K1S4</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cytogenetics:</b>          | 13 B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Summary:</b>          | <p>Receptor for netrin required for axon guidance. Functions in the netrin signaling pathway and promotes neurite outgrowth in response to NTN1. Mediates axon repulsion of neuronal growth cones in the developing nervous system in response to netrin. Axon repulsion in growth cones may be mediated by its association with DCC that may trigger signaling for repulsion. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p> |