

Product datasheet for **MR223732**

Unc5a (NM_153131) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>MR223732 representing NM_153131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTCGGCCCGCCTGTGGCCAGCGCTCCTGGGCATAGTCTCACTGCCTGGCTTCGTGGTTCGG
 GTGCCAGCAGAGTGCCACAGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTGCCCACTTCT
 GGTAGAGCCGGAGGACGTGTACATTGTCAAGAACAAGCCCGTGTCTGGTGTGCAAGGCTGTGCCCGCC
 ACCCAGATCTTCTCAAGTGCAACGGGAATGGGTTCCGCCAGGTCGATCACGTCATTGAACGCAGCACTG
 ACGGCAGCAGCGGATTGCCAACCATGGAGTCCGGATCAACGTATCAAGGCAGCAGGTCGAGAAAGTGT
 TGGGCTGGAGGAGTACTGGTCCAGTGTGTGGCATGGAGTCTCTCAGGAACCACAAAAGCCAGAAGGCC
 TACATCCGGATTGCCTATTTGCCAAGAACTTTGAGCAGGAGCCGCTGGCCAAGGAAGTGTCACTGGAGC
 AAGGCATTGTGCTACCTGTGCCCCCGGAAGGAATCCCCCAGCTGAGGTGGAGTGGCTCCGAAATGA
 GGACCTCGTGGACCCCTCCCTCGACCCCAATGTGTACATCACACGGGAGCACAGCCTAGTGTGCGGCAG
 GCCCGCCTGGCCGACACTGCCAACTACACTGCGTGGCCAAGAACATCGTGGCCCGTCCGGAAGCGCCT
 CTGCGGCCGTATTGTTTATGTGAACGGTGGTGGTTCGACGTGGACCGAGTGGTCCGCTGCAGTGCCAG
 CTGTGGGCGTGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC
 TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCACTGGATGGGAGCTGGAGCCCAT
 GGAGTAAGTGGTCAAGCTGCGGGCTTACTGCACCCACTGGCGGAGCCGGAGTGTCCGACCCAGCGCC
 CCGCAACGGAGGTGAGGAGTCCCGGGTGTGACTGCACCCACTGGCGGAGCCGGAGTGTCCGACCCAGCGCC
 CACACCTCTTCCGGCCCCGAGGACGTGGCTCTCTACATCGGCCTCGTCCCGTGGCCGTGCCTCATCT
 TGCTGTCTGGTCTCTCGTCTCATCTACTGCCGAAGAAGGAAGGACTGGACTCAGACGTGACTC
 ATCCATCCTTACCTCAGGCTTCCAGCCTGTCAGCATCAAGCCAGCAAAGCAGACAATCCCCATCTGCTC
 ACCATCCAACCGACCTCAGCACACCACGACCCTACCAGGGCAGCCTGTGTCCCGGCAGGATGGAC
 CCAGCCCCAAGTCCAGCTCTCTAATGGTCACTGCTCAGCCACTGGGAGTGGCCGCCATACGCTGCA
 CCACAGCTCCCCACCTCTGAGGCTGAGGACTTCGTCTCCCGCCTCTCCACCCAAAACACTTTCTGTTCT
 CTGCCCGCGGTACCAGCAACATGGCCTATGGACCTTCAACTTCTCGGGGGCCGGCTGATGATCCCTA
 ACACAGGAATCAGCCTCCTACACCCCGGACGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCAC
 TCTGCACAAGCCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCTATCGTTAGC
 TGTGGGCCCCAGGAGTCTGCTCACCCGGCCAGTCATCCTTGCCATGGACCACTGCGGGGAGCCAGTC
 CCGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCTGTGAGGGCAGCTGGGAGGACGTGCTGCACCTTGG
 TGAGGAGTCGCCCTCTCATCTCTACTACTGCCAGCTGGAGGCCGGGGCCTGCTATGTCTTACCAGAGCAG
 CTAGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGT
 TTGCCCTGTGGCCTGTACGTCCCTCGAGTACAACATCCGAGTGTACTGCCTGCACGACCCACGATGC
 TCTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGTGGACAGCTGATCCAGGAGCCCGTGTCTGCAC
 TTCAAAGACAGTTACCACAACCTACGTCTGTCCATCCACGACGTGCCAGCTCCCTGTGGAAGAGCAAGC
 TCCTTGTCACTACCAGGAGATCCCTTTTACCACATCTGGAATGGCACTCAGCAGTATCTGCACTGCAC
 CTTACCCTGGAGCGCGTCAATGCCAGCACCCAGCAGTGGCCTGCAAGGTGTGGTGTGGCAGGTGGAG
 GGAGATGGACAGAGCTTCAACATCAACTTTAACATCACTAAGGACACGAGGTTTGTGAAATGCTGGCTC
 TGAGAGTGAAGGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTGGCA
 AAAGATCATTACCAGCCTGGACCCACCCTGCAGCCGGGGCCGACTGGCGAACTCTAGCCAGAAACTT
 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCAGCCCTACAGCCATGATCCTCAACCTATGGG
 AGGCGCGGCACTTCCCAACGGCAACCTCGGCCAGCTGGCCGAGCTGTGGCCGGACTGGCCAGCCAGA
 TGCTGGCCTTTCACCGTGCAGAGGCCGAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223732 representing NM_153131
 Red=Cloning site Green=Tags(s)

MAVRPGLWPALLGIVLTAWLRGSGAQQSATVANPVPGANPDLLPHFLVEPEDVYIVKNKPVLLVCKAVPA
 TQIFFKCNGEWVRQVDHVIERSTDGSSGLPTMEVRINVSRRQVEKVFGLLEEWQCVAWSSSGTTKSQKA
 YIRIAYLRKNFEQEPLAKEVLSLEQIVLPCRPEGIPPAEVEWLRNEDLVDPSLDPNVYITREHSLVVRQ
 ARLADTANYTCVAKNIVARRRSASA AVI VYVNGGWSTWTEWSVCSASCGRGWQKR SR SCTNPAPLNGGAF
 CEGQNVQKTACATLCPVDGWSWSPKWSACGLDCTHWRSECSDPAPRNGGEECRGADLDTRNCTSDLCL
 HTSSGPEDVALYIGLVAVAVCLILLLLVLVLIYCRKKEGLDSDVADSSILTSGFQPVSIKPSKADNPHLL
 TIQPDLSTTTTTYQSLCPRQDGPSPKFQLSNGHLLSPLGSRHTLHSSPTSEAEFVSRSLSTQNYFRS
 LPRGTSNMAYGTFNFLGGRLMIPNTGISLLIPDAIPRGKIYEIYLTLHKPEDVRLPLAGCQTLSPIVS
 CGPPGVLLTRPVILAMDHCGEPSDWSLRLKKQSCGSWEDVLHLGEESPSHLYYCQLEAGACYVFTEQ
 LGRFALVGEALVAATKRLRLLLFAPVACTSLEYNIRVYCLHDTHDALKEVVQLEKQLGGQLIQEPRVLH
 FKDSYHNLRLSIHDVPSLWKSLLVSYQEIPFYHIWNGTQQYLHCTFTLERVNASD LACKVWVWQVE
 GDGQSFNINFNITKDRFAEMLALESEGGVPALVGPSAFKIPFLIRQKIITSLDPPCSRGDWRTLAQKL
 HLDSHLSFFASKPSPTAMILNLWEARHPNGNLGQLAAAVAGLGQPDAGLFTVSEAE

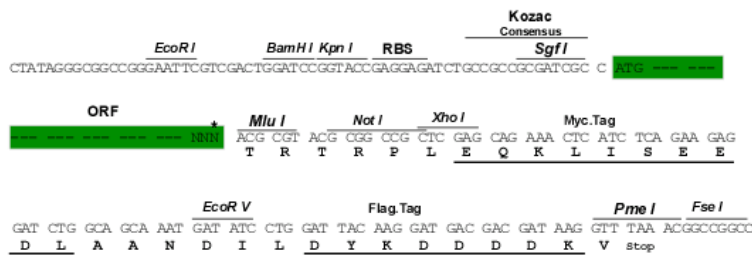
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

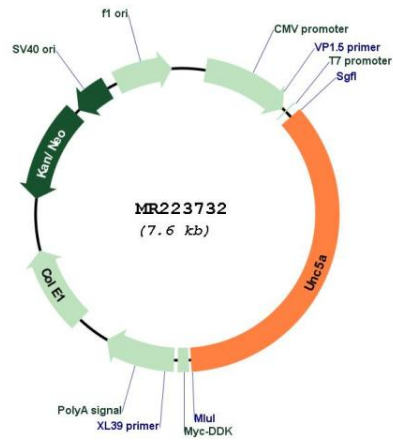


* The last codon before the Stop codon of the ORF

ACCN: NM_153131

ORF Size:	2694 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_153131.4
RefSeq Size:	3974 bp
RefSeq ORF:	2697 bp
Locus ID:	107448
UniProt ID:	Q8K1S4
Cytogenetics:	13 B1
MW:	99.3 kDa
Gene Summary:	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]

Product images:



Circular map for MR223732