

Product datasheet for **MC229057**

Ush1c (NM_001291182) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ush1c (NM_001291182) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ush1c
Synonyms:	2010016F01Rik; harmonin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229057 representing NM_001291182
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCGGAAGGTGGCCCGAGAATTCGACACAAGGTGGATTTTCTCATTGAAAATGACGCAGAGAAGG
 ACTATCTTTATGATGTGCTGCGGATGTATCACCAGACCATGGATGTGGCTGTGCTCGTGGGAGACCTGAA
 GCTGGTCATCAATGAACCAACCGCTGCCGCTGTTTGTGATGCCATTTCGACCCCTGATCCCACTGAAGCAC
 CAGGTGGAGTATGACCAGCTGACACCCCGACGCTCCAGGAACTGAAGGAGGTACGCTTGGACCGTCTGC
 ACCCAGAAGGTCTCGGCCTCAGCGTGGTGGAGGCCTGGAATTTGGCTGTGGACTCTTTATCTCCACCT
 CATCAAAGGTGGCCAGGCAGACAGCGTTGGGCTTCAGGTAGGGGATGAAATTTGCCGGATCAACGGCTAT
 TCCATCTCTTCTGTACCCATGAGGAAGTCATCAACCTGATCCGCACCAAGAAGACCGTGTCCATCAAAG
 TGAGACACATCGGACTGATCCCTGTGAAGAGCTCTCTGAGGAGTCCCTCAAATGGCAGTATGTGGATCA
 GTTCGTGTCGGAATCTGGGGGTGTGCGAGGTGGCTTGGGCTCACCTGGCAATCGGACAACCAAGGAGAAG
 AAGGTGTTTATCAGTCTAGTGGGCTCTCGGGGCTGGGCTGCAGCATCTCCAGTGGCCCCATCCAGAAGC
 CTGGCATCTTCGTGAGCCACGTGAAGCCTGGCTCCCTGTCTGCAGAGGTGGGGTTAGAGACAGGAGACCA
 GATTGTGGAAGTCAACGGCATAGACTTCACCAACCTGGACCACAAGGAGGCTGTGAATGTCTGAAGAGC
 AGCCCGACGCTGACCATCTCCATCGTTGCTGGAGCCGGCCGGGAGCTGTTTCATGACGGACCGGAAACGGC
 TGGAGGAGGCACGGCAGCGTGAGCTGCAACGGCAGGAACCTCATGCAGAAGCGGCTGGCCATGGAGTC
 CAACAAGATCTCCAGGAGCAGCAGGAGATGGAGCGCCAGAGGAGAAAGGAGATCGCCAGAAGGCTGCC
 GAGGAGAATGAGAGATACCGGAAGGAGATGGAACAGATCTCGGAGGAGGAAGAGAAGTTTAAAGAAGCAGT
 GGAAGAAGACTGGGGTTCAAAGGAGCAGCTCATTCTGCCTAAGACCATCACCCGAGGTGCACCCGGT
 GCCCTTCGCAAGCCCAAGTCTTTGGGTGGTTTTACCGTTACGATGGCAAATTCCTCAACCATCCGGAAG
 AAAGCAAAAGAGAAGAAGAAAGCAAGTACGATAGCCTGCAGGACCTGAGGAAGAACAAGAAAGAACTCG
 AGTTTGAACAAAAGCTCTACAAAGAGAAGGAAGAGATGCTGGAGAAGGAGAAGCAGCTCAAGATCAACCG
 GCTGGCCAGGAGGTGTCTGAGACTGAGCGGGAAGACCTTGAGGAATCGGAAAAGACTCAGTATTGGGTG
 GAGAGGCTCTGTGAGACGCGCCTCGAGCAGATTTCTCTGCAGAGAATGAGATTCCTGAGATGACCACAG
 GGCCCCACCTCCCCACCTTCTGTGTCTCTCTGGCCCCACCTTGAGACGATTCGCTGGTGGGATCCA
 CCTCCACACCACTGACCTGGATGACATCCCCTTGACATGTTCTACTACCCCCCAAGACTCCCTCAGCA
 CTGCCCGTGATGCCCCACCTCCATCTGTCAACCCACCTTCCAAGTCCCCGCGCCCCCTGTGCTTCCCT
 CATCAGGTACGTCGAGCAGCTATCCTCACCATGGGTGCAACGCACTCCTCCCCCAATCCCCATTCTCC
 GCCTCCATCCATTCCCACCAAGACCTCACTCCTACCCGCCCATTGCCCTCAGCACTGGAAGAGGCCCTG
 GGCAACCAACCCCTTCCGCACTGGGGACCCAGGCCATCCAGCAGATGACTGGGAGGCAAACACCCACAGTG
 GGAAGCCCTCCAGCTCCCCACCACTGAGCGGAGCTTCCCACCTGCCCAAGACATTCTGCCAAAGCCC
 ACAGCCTCCACGAGGCCCTGGCGTGTCCACCATCTCCAACCCGTCATGGTCCACCAGGAACACAACCTTC
 GTCTACAGGCTGCTGTGAAGTCCGAGGTTCTGCCGAGGAGATGCTGAAGAGGATGGTGGTATATCAGA
 CAGCATTACAGACAAGATTTTCGAAAATACGAAGAAGGCTTTGATCCCTACTCCATGTTCTCGCCAGAGCA
 GATCGCAGGGAAGGACGTCCGGCTTCTGCGAATCAAGAAGGAGGGGCTTTAGACTTGGCCCTGGAGGGA
 GGCGTGGACTCCCCGTGGGGAAGGTGGTCTGCTCTGCTGTTTATGAAGGGGAGCTGCGGAGAGGCATG
 GTGGCGTTGTGAAGGGGATGAGATCATGGCCATCAATGGCAAGATTGTGACGGACTACACCCTGGCTGA
 GGCCGAGGCTGCCTACAGAAGGCTGGAATCAGGGCGGGGACTGGATAGACCTTGTGGTTGCTGTCTGT
 CCCCCTAAGGAGTATGATGACGAGCTCCGAAAGCCCCAGCTGGCCGAAAGCAGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291182
Insert Size: 2580 bp

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001291182.1, NP_001278111.1</u>
RefSeq Size:	3042 bp
RefSeq ORF:	2580 bp
Locus ID:	72088
Cytogenetics:	7 29.66 cM
Gene Summary:	<p>Anchoring/scaffolding protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal development and maintenance of cochlear hair cell bundles (PubMed:19447093). As part of the intermicrovillar adhesion complex/IMAC plays a role in brush border differentiation, controlling microvilli organization and length. Probably plays a central regulatory role in the assembly of the complex, recruiting CDHR2, CDHR5 and MYO7B to the microvilli tips (PubMed:24725409, PubMed:26812018).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (b2) uses an alternate splice junction at the 5' end of an exon compared to variant b3, that causes a frameshift. The resulting isoform (b2) has a shorter and distinct C-terminus compared to isoform b3. 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>