

Product datasheet for **MC222428**

Ush1c (NM_001163733) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ush1c (NM_001163733) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ush1c
Synonyms:	2010016F01Rik; harmonin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222428 representing NM_001163733
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCGGAAGGTGGCCCGAGAATTCGACACAAGTGGATTTTCTCATTGAAAATGACGCAGAGAAGG
 ACTATCTTTATGATGTGCTGCGGATGTATCACCAGACCATGGATGTGGCTGTGCTCGTGGGAGACCTGAA
 GCTGGTCATCAATGAACCAACCGCTGCCGCTGTTTGTGTCATTTCGACCCCTGATCCCACTGAAGCAC
 CAGGTGGAGTATGACCAGCTGACACCCCGACGCTCCAGGAACTGAAGGAGGTACGCTTGGACCGTCTGC
 ACCCAGAAGGTCTCGGCCTCAGCGTGCCTGGAGCCTGGAATTTGGCTGTGGACTCTTTATCTCCACCT
 CATCAAAGGTGGCCAGGCAGACAGCGTTGGGCTTCAGGTAGGGGATGAAATTTGCCGGATCAACGGCTAT
 TCCATCTCTTCTGTACCCATGAGGAAGTCATCAACCTGATCCGCACCAAGAAGACCGTGTCCATCAAAG
 TGAGACACATCGGACTGATCCCTGTGAAGAGCTCTCTGAGGAGTCCCTCAAATGGCAGTATGTGGATCA
 GTTCGTGTCGGAATCTGGGGGTGTGCGAGGTGGCTTGGGCTCACCTGGCAATCGGACAACCAAGGAGAAG
 AAGGTGTTTATCAGTCTAGTGGGCTCTCGGGGCTGGGCTGCAGCATCTCCAGTGGCCCCATCCAGAAGC
 CTGGCATCTTCGTGAGCCACGTGAAGCCTGGCTCCCTGTCTGCAGAGGTGGGGTTAGAGACAGGAGACCA
 GATTGTGGAAGTCAACGGCATAGACTTCACCAACCTGGACCACAAGGAGGCTGTGAATGTCTGAAGAGC
 AGCCCGACGCTGACCATCTCCATCGTTGCTGGAGCCGGCCGGGAGCTGTTTATGACGGACCGGGAACGGC
 TGGAGGAGGCACGGCAGCGTGAAGCTGCAACGGCAGGAACCTCATGCAGAAGCGGCTGGCCATGGAGTC
 CAACAAGATCTCCAGGAGCAGCAGGAGATGGAGCGCCAGAGGAGAAAGGAGATCGCCAGAAGGCTGCC
 GAGGGAATGAGAGATACCGGAAGGAGATGGAACAGATCTCGGAGGAGGAAGAGAAGTTTAAAGAAGCAGT
 GGAAGAAGACTGGGGTTCAAAGGAGCAGCTCATTCTGCCTAAGACCATCACCCGACCGGATCCACCCGGT
 GCCCTTCGCAAGCCCAAGTCTTTGGGTGGTTTTACCGTTACGATGGCAAATTCCTCAACCATCCGGAAG
 AAAGCAAAAGAGAAGAAGAAAGCAAGTACGATAGCCTGCAGGACCTGAGGAAGAACAAGAAAGAACTCG
 AGTTTGAACAAAAGCTCTACAAAGAGAAGGAAGAGATGCTGGAGAAGGAGAAGCAGCTCAAGATCAACCG
 GCTGGCCAGGAGGTGTCTGAGACTGAGCGGGAAGACCTTGAAGGAATCGGAAAAGACTCAGTATTGGGTG
 GAGAGGCTCTGTGAGACGCGCCTCGAGCAGATTTCTCTGAGAGAATGAGATTCCTGAGATGACCACAG
 GGCCCCACCTCCCCACCTTCTGTGTCTCTCTGGCCCCACCTTGGAGCAGTTCGCTGGTGGGATCCA
 CCTCCACACCACTGACCTGGATGACATCCCCTTGGACATGTTCTACTACCCCCCAAGACTCCCTCAGCA
 CTGCCCGTGTGCCCCACCTCCATCTGTCAACCCACCTTCCAAGTCCCGCGCCCCCTGTGCTTCCCT
 CATCAGGTACGTCAGCAGCTCATCCTCACCATGGGTGCAACGCACTCCTCCCCCAATCCCCATTCTCC
 GCCTCCATCCATTCCCACCAAGACCTCACTCCTACCCGCCCATTGCCCTCAGCACTGGAAGAGGCCCTG
 GGCAACCAACCCCTTCCGCACTGGGGACCCAGGCCATCCAGCAGATGACTGGGAGGCAAACACCCACAGTG
 GGAAGCCCTCCAGCTCCCCACCACTGAGCGGAGCTTCCCACCTGCCCAAGACATTCTGCCAAGCCC
 ACAGCCTCCACGAGGCCCTGGCGTGTCCACCATCTCAAACCCGTCATGGTCCACCAGGAACACAACCTTC
 GTCTACAGGCTGCTGTGAAGTCCGAGGTTCTGCCGAGGAGATGCTGAAGAGGATGGTGGTATATCAGA
 CAGCATTCAGACAAGATTTTCGAAAATACGAAGAAGGCTTTGATCCCTACTCCATGTTCTCGCCAGAGCA
 GATCGCAGGGAAGGACGTCCGGCTTCTGCGAATCAAGAAGGAGGGGCTTTAGACTTGGCCCTGGAGGGA
 GGCGTGGACTCCCCGTGGGGAAGGTGGTCTCTGCTGTTTATGAAGGGGAGCTGCGGAGAGGCATG
 GTGGCGTTGTGAAGGGGATGAGATCATGGCCATCAATGGCAAGATTGTGACGACTACACCCTGGCTGA
 GGCCGAGGCTGCCTACAGAAGGCTGGAATCAGGGCGGGGACTGGATAGACCTTGTGGTTGCTGTCTGT
 CCCCCTAAGGAGTATGATGACGAGCTCTTCTCTTCCCTCCTCTGCAGCCGAAAGCCCCAGCTGGCCC
 GAAAGCAGCTTGAAGCCTATGAGCCGTGTGTAGACACGGTTTTTCTGACGCTGGAGCCACGGTGAC
 TAGAACCTTCTTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001163733

Insert Size:	2676 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).
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_001163733.1</u> , <u>NP_001157205.1</u>
RefSeq Size:	3073 bp
RefSeq ORF:	2676 bp
Locus ID:	72088
UniProt ID:	<u>Q9ES64</u>
Cytogenetics:	7 29.66 cM
Gene Summary:	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] Transcript Variant: This variant (b4) has an additional segment in the 3' coding region, resulting in frame-shift, as compared to variant b3. The resulting isoform (b4) is shorter and has a different C-terminus, as compared to isoform b3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.