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Product datasheet for MC218779

Ush1c (NM_023649) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ush1c (NM_023649) 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:

>MC218779 representing NM_023649
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCGGAAGGTGGCCCGAGAATTCCGACACAAGGTGGATTTTCTCATTGAAAATGACGCAGAGAAGG
ACTATCTTTATGATGTGCTGCGGATGTATCACCAGACCATGGATGTGGCTGTGCTCGTGGGAGACCTGAA
GCTGGTCATCAATGAACCCAACCGCCTGCCGCTGTTTGATGCCATTCGACCCCTGATCCCACTGAAGCAC
CAGGTGGAGTATGACCAGCTGACACCCCGACGCTCCAGGAAACTGAAGGAGGTACGCTTGGACCGTCTGC
ACCCAGAAGGTCTCGGCCTCAGCGTGCGTGGAGGCCTGGAATTTGGCTGTGGACTCTTTATCTCCCACCT
CATCAAAGGTGGCCAGGCAGACAGCGTTGGGCTTCAGGTAGGGGATGAAATTGTCCGGATCAACGGCTAT
TCCATCTCTTCCTGTACCCATGAGGAAGTCATCAACCTGATCCGCACCAAGAAGACCGTGTCCATCAAAG
TGAGACACATCGGACTGATCCCTGTGAAGAGCTCTCCTGAGGAGTCCCTCAAATGGCAGTATGTGGATCA
GTTCGTGTCGGAATCTGGGGGTGTGCGAGGTGGCTTGGGCTCACCTGGCAATCGGACAACCAAGGAGAAG
AAGGTGTTTATCAGTCTAGTGGGCTCTCGGGGCCTGGGCTGCAGCATCTCCAGTGGCCCCATCCAGAAGC
CTGGCATCTTCGTCAGCCACGTGAAGCCTGGCTCCCTGTCTGCAGAGGTGGGGTTAGAGACAGGAGACCA
GATTGTGGAAGTCAACGGCATAGACTTCACCAACCTGGACCACAAGGAGGCTGTGAATGTCCTGAAGAGC
AGCCGCAGCCTGACCATCTCCATCGTTGCTGGAGCCGGCCGGGAGCTGTTCATGACGGACCGGGAACGGC
TGGAGGAGGCACGGCAGCGTGAGCTGCAACGGCAGGAACTCCTCATGCAGAAGCGGCTGGCCATGGAGTC
CAACAAGATCCTCCAGGAGCAGCAGGAGATGGAGCGCCAGAGGAGAAAGGAGATCGCCCAGAAGGCTGCC
GAGGAGAATGAGAGATACCGGAAGGAGATGGAACAGATCTCGGAGGAGGAAGAGAAGTTTAAGAAGCAGT
GGAAAGAAGACTGGGGTTCAAAGGAGCAGCTCATTCTGCCTAAGACCATCACCGCAGAGGTGCACCCGGT
GCCCCTTCGCAAGCCCAAGTATGATCAGGGAGTGGAGCCGGCAGACCACTTGGATGGAAGCACGGAGGAG
CAGAGACAGCAGGATTTTCGAAAATACGAAGAAGGCTTTGATCCCTACTCCATGTTCTCGCCAGAGCAGA
TCGCAGGGAAGGACGTCCGGCTTCTGCGAATCAAGAAGGAGGGGTCTTTAGACTTGGCCCTGGAGGGAGG
CGTGGACTCCCCCGTGGGGAAGGTGGTCGTCTCTGCTGTTTATGAAGGGGAGCTGCGGAGAGGCATGGT
GGCGTTGTGAAAGGGGATGAGATCATGGCCATCAATGGCAAGATTGTGACGGACTACACCCTGGCTGAGG
CCGAGGCTGCCCTACAGAAGGCCTGGAATCAGGGCGGGGACTGGATAGACCTTGTGGTTGCTGTCTGTCC
CCCTAAGGAGTATGATGACGAGCTAACCTTCTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_023649

Insert Size: 1647 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:	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_023649.2, NP_076138.2
RefSeq Size:	2044 bp
RefSeq ORF:	1647 bp
Locus ID:	72088
UniProt ID:	Q9ES64
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 (a1) differs from variant b3 in the middle coding region and in the 3' coding region. The resulting isoform (a1) is much shorter, and it lacks an internal segment 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.