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Product datasheet for SC123829

USH1C (NM_005709) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	USH1C
Synonyms:	AIE-75; DFNB18; DFNB18A; NY-CO-37; NY-CO-38; PDZ-45; PDZ-73; PDZ-73/NY-CO-38; PDZ73; PDZD7C; ush1cpst
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_005709 edited
GGCCCGGTCGCGGTCGCGGCTCTTTCCAGCTCCTGGCAGCCGGGCACCCGAAGGAACGGG
TCGTGCAACGACGCAGCTGGACCTGGCCCAGCCATGGACCGAAAAGTGGCCCGAGAATTC
CGGCATAAGGTGGATTTTCTGATTGAAAATGATGCAGAGAAGGACTATCTCTATGATGTG
CTGCGAATGTACCACCAGACCATGGACGTGGCCGTGCTCGTGGGAGACCTGAAGCTGGTC
ATCAATGAACCCAGCCGTCTGCCTCTGTTTGATGCCATTCGGCCGCTGATCCCACTGAAG
CACCAGGTGGAATATGATCAGCTGACCCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGT
CTGGACCGTCTGCACCCCGAAGGCCTCGGCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGC
TGTGGGCTCTTCATCTCCCACCTCATCAAAGGCGGTCAGGCAGACAGCGTCGGGCTCCAG
GTAGGGGACGAGATCGTCCGGATCAATGGATATTCCATCTCCTCCTGTACCCATGAGGAG
GTCATCAACCTCATTCGAACCAAGAAAACTGTGTCCATCAAAGTGAGACACATCGGCCTG
ATCCCCGTGAAAAGCTCTCCTGATGAGCCCCTCACTTGGCAGTATGTGGATCAGTTTGTG
TCGGAATCTGGGGGCGTGCGAGGCAGCCTGGGCTCCCCTGGAAATCGGGAAAACAAGGAG
AAGAAGGTCTTCATCAGCCTGGTAGGCTCCCGAGGCCTTGGCTGCAGCATTTCCAGCGGC
CCCATCCAGAAGCCTGGCATCTTTATCAGCCATGTGAAACCTGGCTCCCTGTCTGCTGAG
GTGGGATTGGAGATAGGGGACCAGATTGTCGAAGTCAATGGCGTCGACTTCTCTAACCTG
GATCACAAGGAGGGCCGGGAGCTGTTCATGACAGACCGGGAGCGGCTGGCAGAGGCGCGG
CAGCGTGAGCTGCAGCGGCAGGAGCTTCTCATGCAGAAGCGGCTGGCGATGGAGTCCAAC
AAGATCCTCCAGGAGCAGCAGGAGATGGAGCGGCAAAGGAGAAAAGAAATTGCCCAGAAG
GCAGCAGAGGAAAATGAGAGATACCGGAAGGAGATGGAACAGATTGTAGAGGAGGAAGAG
AAGTTTAAGAAGCAATGGGAAGAAGACTGGGGCTCAAAGGAACAGCTACTCTTGCCTAAA
ACCATCACTGCTGAGGTACACCCGGTACCCCTTCGCAAGCCAAAGTATGATCAGGGAGTG
GAACCTGAGCTCGAGCCCGCAGATGACCTGGATGGAGGCACGGAGGAGCAGGGAGAGCAG
GATTTCCGGAAATATGAGGAAGGCTTTGACCCCTACTCTATGTTCACCCCAGAGCAGATC
ATGGGGAAGGATGTCCGGCTCCTACGCATCAAGAAGGAGGGATCCTTAGACCTGGCCCTG
GAAGGCGGTGTGGACTCCCCCATTGGGAAGGTGGTTGTTTCTGCTGTGTATGAGCGGGGA
GCTGCTGAGCGGCATGGTGGCATTGTGAAAGGGGACGAGATCATGGCAATCAACGGCAAG
ATTGTGACAGACTACACCCTGGCTGAGGCTGACGCTGCCCTGCAGAAGGCCTGGAATCAG
GGCGGGGACTGGATCGACCTTGTGGTTGCCGTCTGCCCCCCAAAGGAGTATGACGATGAG
CTGACCTTCTTCTGAAGTCCAAAAGGGGAAACCAAATTCACCGTTAGGAAACAGTGAGCT
CCGGCCCCACCTCGTGAACACAAAGCCTCGGATCAGCCTTGAGAGAGGCCACACTACACA
CACCAGATGGCATCCTTGGGACCTGAATCTATCACCCAGGAATCTCAAACTCCCTTTGGC
CCTGAACCAGGGCCAGATAAGGAACAGCTCGGGCCACTCTTCTGAAGGCCAACGTGGAGG
AAAGGGAGCAGCCAGCCATTTGGGAGAAGATCTCAAGGATCCAGACTCTCATTCCTTTCC
TCTGGCCCAGTGAATTTGGTCTCTCCCAGCTCTGGGGGACTCCTTCCTTGAACCCTAATA
AGACCCCACTGGAGTCTCTCTCTCTCCATCCCTCTCCTCTGCCCTCTGCTCTAATTGCTG
CCAGGATTGTCACTCCAAACCTTACTCTGAGCTCATTAATAAAATAAACAGATTTATTTT
CCAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005709 unedited
NGTACGTCAGATTTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCATAAGGTGGAT
TTTCTGATTGAAAATGATGCAGAGAAGGACTATCTCTATGATGTGCTGCGAATGTACCAC
CAGACCATGGACGTGGCCGTGCTCGTGGGAGACCTGAAGCTGGTCATCAATGAACCCAGC
CGTCTGCCTCTGTTTGATGCCATTCGGCCGCTGATCCCACTGAAGCACCAGGTGGAATAT
GATCAGCTGACCCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGTCTGGACCGTCTGCAC
CCCGAAGGCCTCGGCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGCTGTGGGCTCTTCATC
TCCCACCTCATCAAAGGCGGTCAGGCAGACAGCGTCGGGCTCCAGGTAGGGGACGAGATC
GTCCGGATCAATGGATATTCCATCTCCTCCTGTACCCATGAGGAGGTCATCAACCTCATT
CGAACCAAGAAAACTGTGTCCATCAAAGTGAGACACATCGGCCTGATCCCCGTGAAAAGC
TCTCCTGATGAGCCCCTCACTTGGCAGTATGTGGATCAGTTTGTGTCGGAATCTGGGGGC
GTGCGAGGCAGCCTGGGCTCCCCTGGAAATCGGGAAAACAAGGAGAAGAAGGTCTTCATC
AGCCTGGTAGGCTCCCGAGGCCTTGGCTGCAGCATTTCCAGCGGCCCCATCCAGAAGCCT
GGCATCTTTATCAGCCATGTGAAACCTGGCTCCCTGTCTGCTGAGGTGGGATTGGAGATA
AGGGACCAGATTGTCGAAATCAATGGCGTCGACTTCTCTACCTGGATCACAAGGAGGGCC
GGGAGCTGTTTATGACAAACCGGGAACGGCTGGCAAAAGCCCGCACCGTGACCTGCT
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Restriction Sites:	Please inquire
ACCN:	NM_005709
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005709.2, NP_005700.2
RefSeq Size:	2247 bp
RefSeq ORF:	1659 bp
Locus ID:	10083
UniProt ID:	Q9Y6N9
Cytogenetics:	11p15.1

Gene Summary: This gene encodes a scaffold protein that functions in the assembly of Usher protein complexes. The protein contains PDZ domains, a coiled-coil region with a bipartite nuclear localization signal and a PEST degradation sequence. Defects in this gene are the cause of Usher syndrome type 1C and non-syndromic sensorineural deafness autosomal recessive type 18. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
Transcript Variant: This variant (1) has multiple differences in the coding region, compared to variant b3, one of which results in a translational frameshift. The resulting protein (isoform a) has a distinct C-terminus and is shorter than 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.