

Product datasheet for **RG215503**

USHIC (NM_005709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	USHIC
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:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG215503 representing NM_005709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACCGAAAAGTGGCCCGAGAATTCCGGCATAAGGTGGATTTCTGATTGAAATGATGCAGAGAAGG
 ACTATCTCTATGATGTGCTGCGAATGTACCACCAGACCATGGACGTGGCCGTGCTCGTGGGAGACCTGAA
 GCTGGTCATCAATGAACCCAGCCGTCTGCCTCTGTTTGATGCCATTCGGCCGTGATCCCACTGAAGCAC
 CAGGTGGAATATGATCAGCTGACCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGTCTGGACCGTCTGC
 ACCCGAAGGCCTCGCCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGCTGTGGGCTCTTATCTCCACCT
 CATCAAAGGCGGTGAGGCAGACAGCGTCCGGCTCCAGGTAGGGGACGAGATCGTCCGGATCAATGGATAT
 TCCATCTCCTCTGATCCCATGAGGAGGTCAACCTCATTGCAACCAAGAAAAGTGTGTCCATCAAAG
 TGAGACACATCGGCCTGATCCCGTGAAAAGCTCTCCTGATGAGCCCTCACTTGGCAGTATGTGGATCA
 GTTTGTGTCGGAATCTGGGGCGTGCAGGCAGCCTGGGCTCCCTGGAATCGGGAAAACAAGGAGAAG
 AAGGTCTTCATCAGCCTGGTAGGCTCCCGAGGCCTTGGCTGCAGCATTTCCAGCGGCCCATCCAGAAGC
 CTGGCATCTTTATCAGCCATGTGAAACCTGGTCCCTGTCTGCTGAGGTGGGATTGGAGATAGGGGACCA
 GATTGTGCAAGTCAATGGCGTCGACTTCTTAACCTGGATCACAAGGAGGCTGTAATGTGCTGAAGAGT
 AGCCGACGCTGACCATCTCCATTGTAGCTGCAGCTGGCCGGGAGCTGTTATGACAGACCGGGAGCGGC
 TGGCAGAGGCGCGCAGCGTGAGCTGCAGCGGCAGGAGCTTCTCATGCAGAAAGCGGCTGGCGATGGAGTC
 CAACAAGATCCTCCAGGAGCAGCAGGAGATGGAGCGGCAAGGAGAAAAGAAATTGCCAGAAAGGACGCA
 GAGGAAAATGAGAGATACCGGAAGGAGATGGAACAGATTGTAGAGGAGGAAGAGAAGTTTAAGAAGCAAT
 GGGAAGAAGACTGGGGCTCAAAGGAACAGCTACTCTTGCTAAAACCATCACTGCTGAGGTACACCCAGT
 ACCCCTTCGCAAGCCAAAGTATGATCAGGGAGTGGAACCTGAGCTCGAGCCCGCAGATGACCTGGATGGA
 GGCACGGAGGAGCAGGGAGAGCAGGATTTCCGGAATATGAGGAAGGCTTTGACCCCTACTCTATGTTCA
 CCCAGAGCAGATCATGGGGAAGGATGTCCGGCTCCTACGCATCAAGAAGGAGGATCCTTAGACCTGGC
 CCTGGAAGGCGGTGTGGACTCCCCATTGGGAAGGTGGTCTTTCTGCTGTGTATGACGGGGAGCTGCT
 GAGCGGCATGGTGGCATTGTGAAAGGGGACGAGATCATGGCAATCAACGGCAAGATTGTGACAGACTACA
 CCCTGGCTGAGGCTGAGGCTGCCCTGCAGAAGGCCTGGAATCAGGGCGGGGACTGGATCGACCTGTGGT
 TGCCGTCTGCCCCCAAGGAGTATGACGATGAGCTGACCTTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215503 representing NM_005709
 Red=Cloning site Green=Tags(s)

MDRKVAREFRHKVDFLIENDAEDYLYDVL RMYHQTM DVAVLV GDLKLV INEPSRLPLFDAIRPLIPLKH
 QVEYDQLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLFEGCGLFISHLIKGGQADSVGLQVQGEIVRINGY
 SISSCTHEEVINLIRTKKTVSIKVRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEK
 KVFISLVGSRGLGCSISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLS
 SRSLTISIVAAAGREL FMTDRERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAA
 EENERYRKEMEQIVEEEEFKKQWEEDWGSKEQLLLPKTITAEVHPVPLRKP KYDQGV EPELEPADDLDG
 GTEEQGEQDFRKYE EGFDPYSMFTPEQIMGKDVRLRLRIKKEGSLDLA LEGGVDSPIGKV VVS AVYERGA
 ERHGGIVKGEI MAINGKIVTDYTLAEAEALQKAWNQG DWIDL VVAVCPPKEYDDEL TFF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005709

ORF Size: 1656 bp

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.

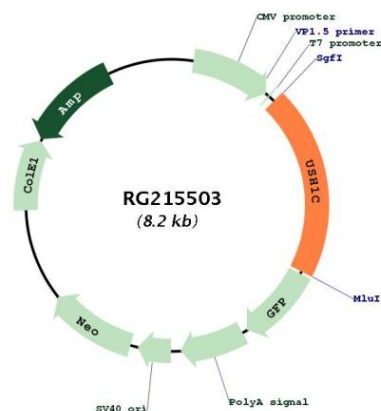
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	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:	<u>NM_005709.4</u>
RefSeq Size:	2237 bp
RefSeq ORF:	1659 bp
Locus ID:	10083
UniProt ID:	<u>Q9Y6N9</u>
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]

Product images:



Circular map for RG215503