OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC306825

USH1G (NM_173477) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USH1G (NM_173477) Human Untagged Clone
Tag:	Tag Free
Symbol:	USH1G
Synonyms:	ANKS4A; SANS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC306825 representing NM_173477.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGACCAGTACCACCGGGCAGCCCGGGATGGCTACCTGGAGCTCCTCAAGGAGGCCACCCGAAAG
GAGCTGAATGCCCCCGACGAGGATGGCATGACCCCCACTCTCTGGGCTGCCTACCATGGCAACCTCGAG
TCGCTGCGTCTCATTGTGAGCCGCGGGGGTGACCCGGACAAGTGTGACATCTGGGGCAACACACCCCTG
CATCTGGCAGCTTCCAATGGCCACTTGCACTGCCTGTCCTTCCTGGTGTCCTTCGGAGCCAACATCTGG
TGCCTAGACAACGACTACCACACGCCGCTGGACATGGCTGCCATGAAGGGCCACATGGAATGCGTGCGC
TACCTGGACTCCATCGCGGCCAAGCAGAGCAGCCTCAACCCCAAGCTGGTGGGTAAGCTGAAGGACAAG
GCCTTCCGCGAGGCGGAGCGGCGCATCCGCGAGTGCGCCAAGCTGCAGCGGAGGCACCACGAACGCATG
GAGCGGCGATACCGGCGCGAGCTGGCCGAGCGTTCCGACACCCTCAGCTTCTCCAGCCTCACGTCCAGC
ACCCTGAGCCGCCGGCTGCAGCATCTGGCGCTGGGCAGCCACCTGCCGTACTCTCAGGCCACGCTGCAC
GGCACGGCCAGGGGCAAGACCAAGATGCAGAAGAAGCTGGAGCGGCGCAAGCAGGGCGGCGAAGGCACC
TTCAAGGTCTCCGAGGATGGGCGCAAGAGCGCCCGCTCGCTCTCGGGCCTGCAGCTGGGCAGCGACGTG
ATGTTCGTGCGCCAGGGCACCTACGCCAATCCCAAGGAGTGGGGCCGAGCCCCGCTCCGGGACATGTTC
CTCTCGGACGAGGACAGCGTCTCCCGTGCCACGCTGGCGGCCGAGCCTGCCCACTCGGAGGTCAGCACC
GACTCAGGCCACGACTCCCTGTTTACCCGCCCCGGCCTGGGCACCATGGTGTTCCGCAGAAATTACTTG
AGCAGTGGGCTGCACGGACTGGGCCGCGAGGATGGGGGTCTGGATGGGGTGGGAGCGCCGCGGGGTCGG
CTGCAGAGCTCCCCCAGCCTGGACGATGACAGCCTGGGCAGTGCCAACAGCCTGCAGGACCGCAGCTGT
GGGGAGGAGCTGCCCTGGGATGAGCTCGATTTAGGCTTGGACGAGGACCTGGAGCCCGAGACTAGCCCG
CTGGAGACCTTCCTGGCCTCTCTGCACATGGAGGACTTTGCCGCCCTCCTGCGGCAGGAGAAGATCGAC
CTCGAGGCTTTGATGCTGTGCTCTGACCTCGACCTCCGCAGCATCAGCGTCCCACTGGGGCCCCGAAAG
AAGATCTTGGGGGCCGTGAGGAGGCGGCGGCAGGCGATGGAGCGCCCGCCGGCCCTGGAGGACACAGAG
CTATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_173477

Insert Size: 1386 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_173477.4
RefSeq Size:	3565 bp
RefSeq ORF:	1386 bp
Locus ID:	124590
UniProt ID:	Q495M9
Cytogenetics:	17q25.1
MW:	51.5 kDa
Gene Summary:	This gene encodes a protein that contains three ankyrin domains, a class I PDZ-binding motif and a sterile alpha motif. The encoded protein interacts with harmonin, which is associated with Usher syndrome type 1C. This protein plays a role in the development and maintenance of the auditory and visual systems and functions in the cohesion of hair bundles formed by inner ear sensory cells. Mutations in this gene are associated with Usher syndrome type 1G (USH1G). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.