

Product datasheet for **SC318310**

C6orf138 (PTCHD4) (NM_001013732) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	C6orf138
Synonyms:	C6orf138; dJ402H5.2; PTCH53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC318310 representing NM_001013732.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGCTTTTTAAGACGGCCGGGAGCGCCTGCGAGCTGGATCTGGTGGAGGATGCTGCGGCAGGTGCTT
CGCAGAGGGCTCCAGTCGTTCTGCCACAGGCTGGGTTTGTGCGTGAGCCGGCACCCGGTCTTTTTCTC
ACCGTGCCCGCAGTCCTGACAATCACCTTCGGCCTCAGCGCGCTCAACCGCTTCCAGCCCGAGGGCGAC
CTGGAGCGCCTGGTCGCTCCCAGCCACAGCCTGGCCAAGATCGAGCGCAGCCTGGCCAGCAGCCTTTTC
CCCCTGACCAGTCCAAAAGCCAGCTCTATTGGACTTACACACCCTGGGAGGTATGGCAGGGTGATC
CTCCTCTCCCCAACCGGGGACAATATTTTGCTCCAGGCTGAGGGGATCCTGCAGACCCACCGAGCCGTG
CTGGAATGAAGGATGGGAGGAACAGTTTTATTGGACACCAACTGGCGGGGTAGTGAAGTGCCAAAC
AGCAAAGATCAGCGGTCAAGTCAGCCAGAGCCATTCAAATCACCTACTACCTCCAGACCTATGGCTCT
GCCACCAAGACCTCATAGGGGAGAAGTGGGAGAATGAGTTCTGTAAGCTTATAAGGAAGCTCCAGGAG
GAGCATCAAGAACTCCAGCTCTACTCTTTAGCATCCTTTAGCCTCTGGAGGGACTTTTATAAGACCAGC
ATCCTGGCCAGAAGCAAGGTCTGTGAGCCTCGTGCTGATCCTGACCACAGCCACCTCTCCAGCTCC
ATGAAGGACTGCTTGCGCAGTAAGCCCTTCTGGGCCCTCTGGGGGTGCTCACAGTATGCATCTCCATC
ATCACAGCAGCAGGGATCTTCTTATCACCGATGGAAGTACAACCTCCACCCTGCTGGGAATCCCGTTC
TTGCCATGGGTGATGGAATAAGGAGTGTGTTGAGCTTCTGTCCGGATGGCGGAGAACCAAGAGAAC
TTGCCCTTCAAAGACAGGATAGCAGATGCCTATTCTGATGTGATGGTCACCTATACCATGACCAGCTCC
CTGTACTTCATCACTTTTGGCATGGGTGCCAGCCATTACAAACATAGAGGCTGTGAAGTCTTCTGT
CAAAACATGTGTCTCTATTCTGTTGAATACTTCTACATTTTCTCTTCTTTGGCTCCTGTCTGGTC
TTTGCTGGCCAACTAGAGCAAAACCGCTACCACAGCATCTTTGCTGTAAGATCCCTTCTGCAGAATAC
CTGGATCGCAAACTGTGTGTTCCAGACAGTGATGAGTGATGGGCATCAACAGACGTCCCATCATGAG
ACGAACCCCTACCAGCACCCTTCACTCAGCACTTCTCCGTGAACATTATAATGAATGGATTACCAAT
ATATATGTGAAGCCATTGTTGTATCCTCTATCTCATTTATGCCTCCTTCTCCTTCATGGGGTGCTTA
CAGATCAGTGACGGAGCCAACATCATCAATCTACTAGCCAGTGATTCGCAAGTGTTTCTATGCCATG
GTTACGACAGAAATATTTACGCAACTATAGCCCTGTGATAGGATTCTACGTCTATGAGCCCTAGAGTAC
TGGAACAGCAGCGTCCAGGATGACCTAAGAAGACTCTGTAGTGGATTCACTGCAGTGTCTGGGTGGAG
CAGTACTACAGTTCCTGAAAGTCAGCAACGTCAAGTCCAATAACAAAAGTGACTTCATCAGTGTCTG
CAAAGCTCATTTTTAAAAAGCCAGAATTCAGCATTTTCGAAATGATATCATCTTCTCAAAGGCAGGG
GATGAAAGCAATATCATTGCTTCTCGCTTGATCTGGTGGCCAGGACTAGCAGAGACAAGCAGAAAGAA
ATCACAGAAGTGTTGAAAAGCTGAGGCCCTATCCCTCTCAAAGAGCATCCGATTCACTCGTGTCAAC
CCCTCCTTTGTCTTCATGGACATTACAGCTTGTCTGTACAGTGCCTGTTCTGATTGCAGGCTTTGGT
GTTCTCCTGGTGTTAATCCTGACTTTTTTCTAGTGATCCACCCTCTGGGAACTTCTGGCTAATTCTT
AGCGTCACCTCAATTGAGCTGGGCGTTCTGGGCTTAATGACATTATGGAACGTGACATGGATTGCATT
TCTATCTTGTGCCTTATCTACACCTTGAATTCGCCATTGACCACTGTGCACCACTGCTTTTACATTT
GTATTAGCAACTGAGCACACCCGAACACAATGTATAAAAAGCTCCTTGCAAGACCATGGGACAGCCATT
TTGCAAAATGTTACTTCTTTCTATTGGGTTAGTCCCCCTCTATTTGTGCTTCGAACCTGACCTTC
ACACTGTTCAAATGCTTGTGCTCACTGGGGTTGCACACTTCTGCACTGTTTTGTTATTTTACCTGTG
TTCCTAACGTTTTTCCCCCTTCCAAAAAGCACCACAAGAAAAAGAAACGTGCCAAGCGAAAGGAGAGA
GAGGAAATTGAATGCATAGAAATCAAGAGAACCCGGATCACGTCAACCACAGTATGA
ACGCGTACGCGCCGCTCGAGCAGAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_001013732

Insert Size:

2541 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 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001013732.3
RefSeq Size:	2850 bp
RefSeq ORF:	2541 bp
Locus ID:	442213
UniProt ID:	Q6ZW05
Cytogenetics:	6p12.3
Protein Families:	Transmembrane
MW:	96.4 kDa

Gene Summary:

Could act as a repressor of canonical hedgehog signaling by antagonizing the effects of SMO, as suggested by down-regulation of hedgehog target genes, including GLI1, PTCH1, and PTCH2 in PTCHD4-expressing cells.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longer protein (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.