

Product datasheet for **RC231152**

C6orf138 (PTCHD4) (NM_207499) Human Tagged ORF Clone

Product data:

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

ORF Nucleotide Sequence: >RC231152 representing NM_207499
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCTTTTAAAGACGGCCGGGAGCGCCTGCGAGCTGGATCTGGTGGAGGATGCTGCGGCAGGTGCTTC
GCAGAGGGCTCCAGTCGTTCTGCCACAGGCTGGGTTTGTGCGTGAGCCGGCACCCGGTCTTTTTCCTCAC
CGTGCCCGCAGTCCTGACAATCACCTTCGGCCTCAGCGCGCTCAACCGCTTCAGCCCGAGGGCGACCTG
GAGCGCCTGGTCGCTCCAGCCACAGCCTGGCCAAGATCGAGCGCAGCCTGGCCAGCAGCCTTTTCCCCC
TGGACCACTCCAAAGCCAGCTCTATTGCGACTTACACACCCCTGGGAGGTATGGCAGGGTGATCCTCCT
CTCCCCAACCGGGGACAATATTTTGTCTCAGGCTGAGGGGATCCTGCAGACCCACCGAGCCGTGCTGGAA
ATGAAGGATGGGAGGAACAGTTTTATTGGACACCAACTGGGCGGGTAGTGGAAGTGCCAAACAGCAAAG
ATCAGCGGGTCAAGTCAGCCAGAGCCATTCAAATCACCTACTACCTCCAGACCTATGGCTCTGCCACCCA
AGACCTCATAGGGGAGAAGTGGGAGAATGAGTTCTGTAAGCTTATAAGGAAGCTCCAGGAGGAGCATCAA
GAACTCCAGCTCTACTCTTTAGCATCCTTTAGCCTCTGGAGGGACTTTCATAAGACCAGCATCCTGGCCA
GAAGCAAGGTCCTGGTGAGCCTCGTGCTGATCCTGACCACAGCCACCCCTCCAGCTCCATGAAGGACTG
CTTGCGCAGTAAGCCCTTCTGGGCCTCCTGGGGTGCTCAGATGTCATCTCCATCATCAGCAGCA
GGGATCTTCTTCATCACCAGTGGAAAGTACAACCTCACCCCTGCTGGGAATCCCCTTCTCGCCATGGGCA
TCTCCACTGAATTTACCTCAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGTTTAA



Protein Sequence:

>RC231152 representing NM_207499

Red=Cloning site Green=Tags(s)

MCFLRRPGAPASWIWWRMLRQVLRRGLQSFCHRLGLCVSRHPVFFLTVPVLTITFGLSALNRFQPEGDL
ERLVAPSHSLAKIERSLASSLFPLDQSKSQLYSDLHTPGRYGRVILLSPGDNILLQAEGILQTHRVL
MKDGRNSFIGHQLGGVVEVPNSKDQVRKSARAIQITYYLQTYGSATQDLIGKEWENEFCKLIRKLQEEHQ
ELQLYSLASFSLWRDFHKTSILARSKVLVSLVLILTTATLSSSMKDCLRSPFLGGLGVLTVCSITAA
GIFFITDGKYNSTLLGIPFFAMGISTEFTSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8051_b02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_207499

ORF Size:

933 bp

OTI Disclaimer:

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:

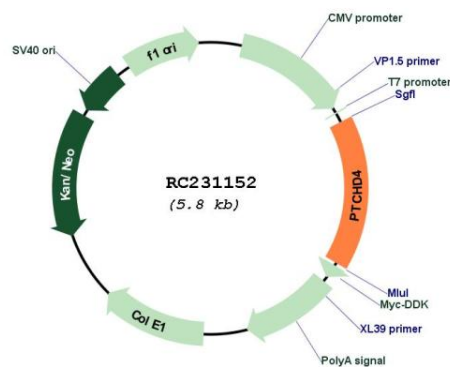
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_207499.2, NP_997382.2</u>
RefSeq ORF:	936 bp
Locus ID:	442213
UniProt ID:	<u>Q6ZW05</u>
Cytogenetics:	6p12.3
Protein Families:	Transmembrane
MW:	35.3 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]

Product images:



Circular map for RC231152