

Product datasheet for **RC226062**

C9orf75 (TPRN) (NM_001128228) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	C9orf75
Synonyms:	C9orf75; DFNB79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC226062 ORF sequence, codon optimized.

Due to the complexity of NM_001128228, the ORF clone is codon optimized for mammalian Expression.

The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGC

ATGGCAGCATTGGGCGGCCAGGTTCCGGCCACGGCGGCTGTGCCCGCTGGAAACGGGAGATCCTGG
AACGAAAAAGAGCCAAGCTGGCAGCCCTCGGCGAGGAGCTGGTCCGGGAGCAGCCGAACCCGAGCAGCG
GGTCCTTGCCGAGTCCCTTGGCCCCCTGCGCGAGAACCCTTTATGCTGCTGGAGGCAGAACGGCGGCGA
GGCGGGGGCGCTGCCGGTGCCGGTTGCTGGAGAGGTACCGGAGAGTCCCAGGTGTACGCGCCCTGCGCG
CTGACTCCGTGCTGATCATAGAGACTGTGCCGGGCTTCCCGCCCGCCCTCCCGCCCCGGCGCAGCTCA
GATCCGGGCAGCCGAAGTGCTGGTTTACGGCGCCCCACCTGGCCGGGTTTCCCGCTGCTGGAGCGCTTC
GACCTCTCGCCGCCCCAGGCGCAGGGGAGCCCCGAACGGGCCAGGCCCTCCACCACCTCCGCCTCCCC
CAGCCCCCTCTAGACCACGCCCGCCGCCCTAGTCCACCAGCGGCTCTGGCCCAAGGGGCGGAGGGGC
CTCCCCAGGGGCAAGAAGGAGCGACTTTTTCAGAAAGACGGGTAGCAACAGTTTACAGTGCAACCTCGA
GGCCTCCATAGAGGTGCTGGTGACGACTTCTGTCCAATGGGCACTCAGCCCCCTGAGCCACGGGCTGGCC
CGGCTAACAGGCTTGCCGGCTCACCACCTGGCAGTGGTCAGTGGAACCAAGTGGAAGTGGTGATCC
ATCACTGCATCCCCGCTTACCCGGAACCCCACTGCCACTCCGGCCAGCCGCTGCTTCCGAACA
CCTTCACAAAGGCAATGCGTGTCCGCGGCCACTAGTACGAACGACTCATTTGAGATTAGACCTGCTCCGA
AGCCCCGTGATGGAGACAATCCCTCTGGCGATCTGCAAGCACGGGCTTGGCTTCTCTCCGAGCTAATAG
CCGGAACCTCTTTATGTTATCCCCAAGAGCAAGCATCAGGCGCACCTCCTCCGAGGGCCGCCAGAGC
GTGGAGCTGCCTAAGGGCGATCTGGGACCGGCGTCACCAAGTCAAGAGCTTGGCTCCAGCCAGTGCCTG
GCGGAGATGGAGCCCCCGCCCTCGGCAAGTCTCCTTTGGAGGTGGAAGCACAGTGGGCCGTGGAAGAAGG
CGCGTGTCCAAGGACCGCGACCGCGCTGGCCGACAGAGCGATCCGCTGGCAGCGACCATCTTCAACACCA
CCCTTTCTCCCGCAGCCAGCGAGGAGGCGGAACAGCAGAGGGCCTCAGGCTCCAGGCTGGCGAAGA
ACAGCAGGGAGTATGTGCGCCAGGACTCCCCGTTACATTCATCGACGAAGTCGACAGTGAGGAGGCTCC
ACAGGCGGCTAAACTGCCTTACCTTCCCCACCCCGCCCGCCCTTACCCCGCTCGACCAGGCTGCGTC
GCAGAGCTCCAGCCTCGGGGAAGTAACACCTTACCCGTGGTCCCCAAGCGAAAGCCCGGTACACTGCAGG
ACCAGCATTTACGCCAGCGCAATCGGGAGCCCCGACCCCGGAGGCCGAGGAAGAGGAGGCCAGCTGTCT
GCTGGGGCCAACACTTAAGAAGAGGTACCAACAGTCCACGAGATCGAGGTGATCGGAGGCTACCTGGCT
CTGCAGAAATCTTGTCTCACTAAAGCAGGTAGCAGCCGAAAGAAAATGAAGATTCTTTTAACGATAAAA
GCCTGCAGACCACTTTCGAGTACCCAGTGAGTCTTCCCTGGAGCAGGAGGAAGAGGTTGACCAGCAGGA
AGAAGAAGAAGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAGGGCAGCGGTAGCGAAGAAAAGCCATTT
GCACTCTTCTGCGCGGGCTACCTTTGTAAGCTCAGTCAGACCTGAATCATCCAGGCTCCAGAGGGAT
CCTCAGGCTTGTCTCTTATACCCCAAAGCACAGTGTGCTTTCTCTAAATGGCAGGAACAAGCCCTGGA
GCAGGCTCCAAGGGAAGCTGAGCCTCCGCCGTTGAGGCCATGCTGACTCCCGCTCTCAGAATGATCTG
AGTGATTTTCGGAGCGAGCCCGCACTGTACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226062 representing NM_001128228

Red=Cloning site Green=Tags(s)

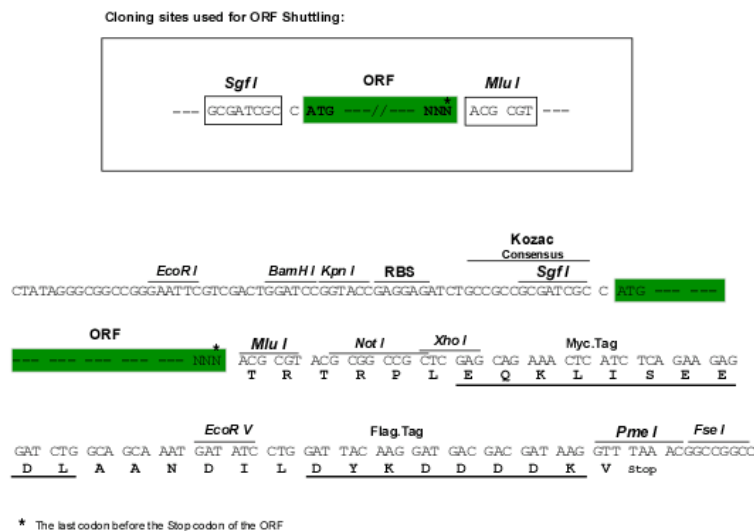
MAALGRPGSGPRAAVPAWKREILERKRAKLAALGGAGPGAAEPEQVRVLAESLGPLRENPFMLLEAERRR
GGGAAGARLLERYRRVPGVRALRADSVLIIETVPGFPPAPPAGAAQIRAAEVLVYGAPPGRVSRLLERF
DPAAAPRRRGSPERARPPPPPPPPAPPPPPAAPSPPAAGPRGGGASPGARRSDFLQKTGSNSFTVHPR
GLHRGAGARLLSNHSAPEPRAGPANRLAGSPPGSQWKPKVESGDP SLHPPSPGTPSATPASPPASAT
PSQRQCVSAATSTNDSFEIRPAKPMETIPLGDLQARALASLRANSRNSFMVIPKSKASGAPPPPEGRQS
VELPKGDLGPASPSQELGSGPVPVGGDGAPALGKSPLEVAQWAVEEGACPRATATADRAIRWQRPSSPP
PFLPAASEEAEPAEGLRVPGLAKNSREYVRPGLPVTIDEVDSEEAQAAKLPLYLPHPARLHPARPGCV
AELQPRGSNTFTVVPKRKPGTLQDQHF SQANREPRPREAEEEEASCLLGPTLKKRYPTVHEIEVIGGYLA
LQKSCLTKAGSSRKMKISFNDKSLQTTFEYPSSESLQEVEVDQQEEEEEEEEEEEEEGSGSEKPF
ALFLPRATFVSSVRPESSRLPEGSSGLSSYTPKHSVAFSKWQEQALEQAPREAEPPVVEAMLTASQNDL
SDFRSEPALYF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001128228

ORF Size:

2133 bp

OTI Disclaimer:

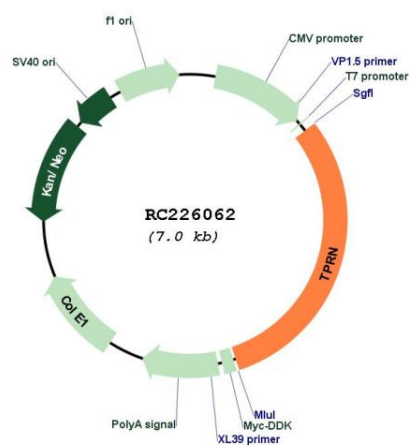
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	NM_001128228.2 , NP_001121700.2
RefSeq Size:	2659 bp
RefSeq ORF:	2136 bp
Locus ID:	286262
UniProt ID:	Q4KMQ1
Cytogenetics:	9q34.3
MW:	75.6 kDa
Gene Summary:	This locus encodes a sensory epithelial protein. It was defined by linkage analysis in three Pakistani families to lie between D9S1818 (centromeric) and D9SH6 (telomeric). Mutations at this locus have been associated with autosomal recessive deafness. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC226062