

Product datasheet for **RC228427**

ROD1 (PTBP3) (NM_001163788) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	ROD1
Synonyms:	ROD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC228427 representing NM_001163788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATAGTTCTACTCCTTCTACAGGTGTGTATGCTAATGGGAATGACAGCAAGAAATTTAAACGAGATA
 GACCTCCCTGTTCCGCTTCCCGTGTCTCCATCTTCGAAAAATTCATGTGATGTCACCGAAGCAGAGAT
 CATATCATTAGGTCTACCATTTGGCAAAGTAACATAATCTTTGATGTTGAAAGGAAAAAGCCAGGCTTTC
 TTGAAATGGCTTCTGAGGAAGCTGCCGTACTATGGTGAATTATTACACTCCTATTACTCCTCACCTTC
 GAAGCCAGCCTGTTTATTTAGTATTCGAATCACAGAGAACTTAAGACTGACAATCTACCTAATCAAGC
 TCGAGCCCAAGCTGCACTGCAGGCTGTGAGTCCGCTCCAATCAGGAAGCCTGGCCCTTTCTGGAGGTCCT
 TCCAATGAAGGCACAGTCTACCTGGGCAGAGCCTGTGCTTCAATAATTATTGAAAACCTCTTTTACC
 CTGTTACCCTGGAAGTCTTTCATCAGATATTTCTAAATTTGGCACAGTCTTGAAGATTATCACCTTTAC
 AAAGAATAATCAGTTTCAAGCCTTGCTTCAGTATGCTGACCCAGTAAATGCACATTATGCCAAAATGGCT
 CTGGATGGCCAGAATATCTATAATGCATGCTGCACTCTGCGCATTGACTTCTCCAAGCTCACCAGCCTTA
 ATGTGAAATATAATAATGACAAAAGCAGAGACTTCACTCGCTTAGACCTTCTACTGGTGATGGCCAGCC
 ATCCCTTGAACCCCTATGGCTGTGCTTTTGGTGACCGGGTATAATTTCTTACCATATGCAGGGGCT
 GCTGGATTGGCCAGCCATTGGATTCTCAAGCTACAGGCTATCAGTCCAGCTGTTCTGGAGCTC
 TTGGTCTCTCACAACTCCTTCTGCTGCTCACTGGAAGGATGGCCATTCTGGGGCTAGTGGTATACC
 AGGAAATCTGTTCTACTCGTCACAAATCTCAATCCTGATCTTATCACACCACATGGGCTTTTTATCCTA
 TTTGGAGTCTATGGTGATGTACATCGAGTGAAGATTATGTTTAATAAGAAAGAAAATGCCTTGGTTCAGA
 TGGCGGATGCAAAATCAAGCTCAGCTAGCAATGAACCATCTAAGTGGTCAGAGACTTTATGGGAAAGTCT
 TCGTGCTACACTGTCCAAACATCAAGCAGTACAGCTTCTCGAGAGGGACAAGAAGACCAAGGTCTGACT
 AAGGATTTAGCAATAGTCCTTTGCATCGCTTTAAAAAGCCGGGCTCTAAAACTTCCAGAATATCTTTC
 CACCATCAGCCACTCTGCATCTTCCAACATCCCCCTTCTGTTACAGTGGATGATCTGAAGAACCTTTT
 CATAGAAGCTGGATGTTTCAAGGCTTTTAAATCTTTCAGAAAGATCGAAAATGGCGCTCATTCAA
 TTGGGATCTGTGGAAGAAGCAATTCAGGCCCTCATTGAGCTTCATAACCATGACCTTGGAGAAAATCACC
 ACCTCAGAGTTTCTTCTCAAAATCTACAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228427 representing NM_001163788
 Red=Cloning site Green=Tags(s)

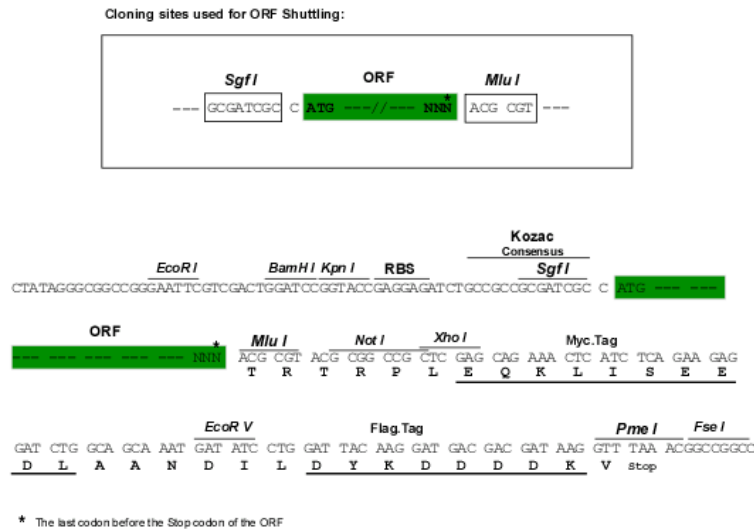
MNSSTPSTGVYANGNDSKKFKRDRPPCSPSRVLHLRKIPCDVTEAEIISLGLPFGKVTNLLMLKGKSQAF
 LEMASEEAAVTMVNYYPITPHLRSQPVIQYSNHRELKTDNLPNQARAQAALQAVSAVQSGSLALSGGP
 SNEGTVLPGQSPVLRITIIENLFYPTLEVLHQIFSKFGTVLKIIITFKNNQFQALLQYADPVNAHYAKMA
 LDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDFTRLDLPTGDGQPSLEPPMAAAGFAPGISSPYAGA
 AGFAPAIGFPQATGLSVPAPVPGALGPLTITSSAVTGRMAIPGASGIPGNSVLLVTNLNPDITPHGLFIL
 FGVDVHRVKIMFNKKENALVQMADANQAQLAMNHLGQRLYGKVLRLATLSKHQAVQLPREGQEDQGLT
 KDFSNSPLHRFKKPGSKNFQNIFFPSATLHLNIPPSVTVDLKNLIEAGCSVKAFKFFQKDRKMALIQ
 LGSVEEAIQALIELHNHDLGENHHLRVFSKSTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1398_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163788

ORF Size: 1572 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.

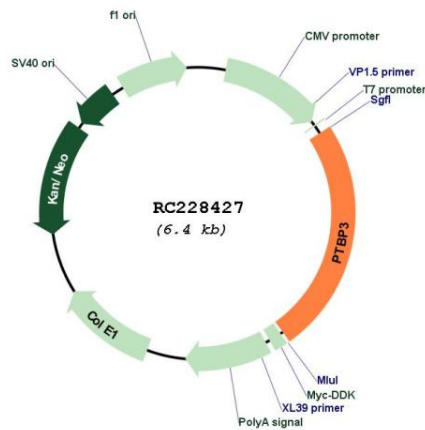
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001163788.4](#)

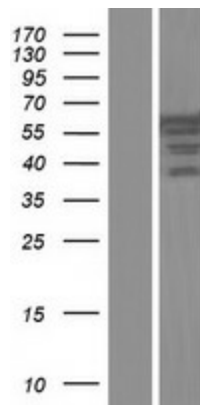
RefSeq ORF: 1575 bp

Locus ID:	9991
UniProt ID:	O95758
Cytogenetics:	9q32
Protein Families:	Druggable Genome
MW:	56.6 kDa
Gene Summary:	The protein encoded by this gene binds RNA and is a regulator of cell differentiation. The encoded protein preferentially binds to poly(G) and poly(U) sequences in vitro. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC228427



Western blot validation of overexpression lysate (Cat# [LY431455]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228427 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).