

Product datasheet for **RC206839**

OGFOD1 (NM_018233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGFOD1 (NM_018233) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OGFOD1
Synonyms:	TPA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC206839 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATGGGAAGCGGCCAGCGGAGCCCGGCCAGCCCGGTGGGAAAAAGGAAAGAAGGAGGTGATGG
 CGGAGTTTTCGGACGCTGTACGGAAGAAACCTTGAAAAAGCAGGTGGCTGAGGCCTGGAGCCGACGAGC
 GCCGTTACAGTACGAAGTCATTGTCATGGACATGGACCCTTTTCTCACTGTGTGATCCCAAACCTCATC
 CAAAGCCAAGACTTCTTAGAAGGGCTTCAGAAGGAACTGATGAACTTGGACTTCCATGAGAAGTATAATG
 ATTTATATAAGTTCCAGCAGTCTGATGATTTGAAGAAGAGAAGAGAGCCTCACATCTCCACTTTAAGGAA
 AATTCTGTTTGAAGATTTCCGGTCTGGCTTTCTGATATTTCTAAAATTGACCTGGAATCAACCATTGAC
 ATGTCCTGTGCTAAATATGAATTCAGTATGCCCTGCTGTGCCATGATGATGAGCTGGAAGGGCGCCGGA
 TTGCCTTCATCCTGTACCTGTTCTCCTGGGACAGGAGCATGGGTGGTACCCTGGACCTGTACAGCAT
 TGATGAACACTTTCAGCCGAAGCAGATTGTCAAGTCTTATCCCTTCGTGGAACAACTGGTTTTCTTT
 GAAGTATCTCCTGTGTCCTTACCAGGTGCTGAAGTGTCTGAAGAAAAGTACGTTTGTCTATAA
 GTGGCTGGTTTTCATGGTCCATCATTGACTCGGCCCTCCAACTACTTTGAACCCCCATACCTCGGAGCCC
 TCACATCCACAAGATCATGAGATTTTGTATGATTGGATCAACCCTACTTATCTGGACATGGATTACCAA
 GTTCAAATTAAGAAGAGTTTGAAGAAAGTTCTGAAATTCCTGAAGGAGTTTCTTAAGCCTGAGAAAT
 TCACGAAAGTCTGTGAGGCCCTGGAGCATGGACATGTGGAATGGAGCAGCCGAGGTCCCCCTAACAAAAG
 GTTTTATGAGAAAGCTGAGGAGAGTAAGCTTCTGAGATATTGAAGGAGTGCATGAAGTTATTTGCTCT
 GAGGCACTATTCTTGTGCTCTCAACTTCACAGGCCTGAAGCTTCATTTCTGGCCCTTCGGAAGAAG
 ATGAGTGAATGATAAAAAAGAGCAGAAACCCTGATATCACTGAAGAAGGGACTAGCCATAGTCTCTCC
 TGAGCCAGAGAATAATCAGATGGCCATCAGCAACAACAGCCAACAGAGCAATGAGCAGACAGACCCAGAG
 CCAGAGGAAAATGAAACAAGAAAGAATCAAGTGTCCCATGTGCCAAGGGGAACTGAGGCATTGGAAAG
 CCGGCTACTACACTTTAATTCATGACCATAGCAAGGCTGAATTTGCCCTAGACTTAATTCTGACTGTGG
 CTGTGAAGGCTGGGAGCCAGAATATGGCGGTTTTACTTCTTACATTGCCAAAGGTGAAGTGAAGAGCTG
 CTAACAGTGAATCCAGAAAGCAATCTTTGGCATTGGTCTACAGAGACAGAGAGACTCTGAAATTTGTCA
 AGCATATTAACCACCGAAGCCTGGAACAAAAGAAAACCTCCCAAACAGAACAGGTTTCTGGGACTTTTC
 ATTCATCTATTATGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206839 protein sequence
 Red=Cloning site Green=Tags(s)

MNGKRPAEPGPARGVGGKKEVMAEFSDAVTEETLKKQVAEAWSRRTPF SHEVIVMDMPFLHCVIPNFI
 QSQDFLEGLQKELMNLDFHEKYNDLYKFQQSDDLKRRREPHISTLRKILFEDFRSWLSDISKIDLESTID
 MSCAKYFTDALLCHDDELEGRRIAFILYL VPPWDRSMGGTLDL YSIDEHFQPKQIVKSLIPSWNKL VFF
 EVSPVSFHQVSEVLSEEKSRLSISGWFHGPSLTRPPNYFEPPIPRSPHIPQDHEILYDWINPTYLDMDYQ
 VQIQEFEFEESEILLKEFLKPEKFTKVCEALEHGHVWSSRGPNNKRFYEKAEESKLP EILKECMKLFRS
 EALFLLL SNFTGLKLHFLAPSEEDMNDKKEAETTDITEEGTSHSPPEPENNQMAISNNSQQSNEQTDPE
 PEENETKKESSVPMQGELRHWTGHYTLIHDHKA EAFALDLIL YCGCEGWEPEYGGFTSYIAKGEDEEL
 LTVNPESNSLALVYRDRETLKFKVHINHRSLEQKKTFPNRTGFWD F SFIYYE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6426_e12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018233

ORF Size: 1626 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.

RefSeq: [NM_018233.4](#)

RefSeq Size: 3020 bp

RefSeq ORF: 1629 bp

Locus ID: 55239

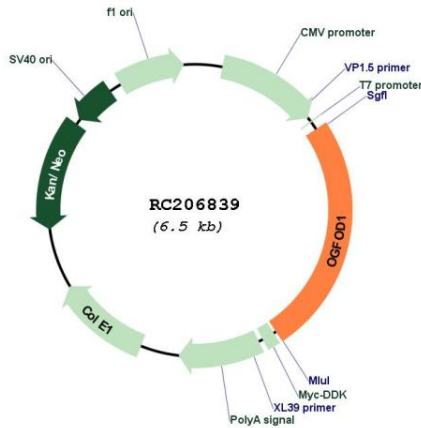
UniProt ID: [Q8N543](#)

Cytogenetics: 16q13

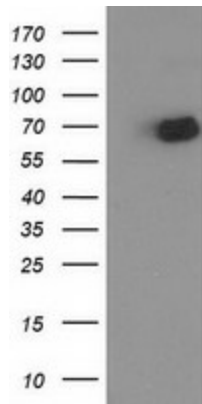
MW: 63.2 kDa

Gene Summary: Prolyl 3-hydroxylase that catalyzes 3-hydroxylation of 'Pro-62' of small ribosomal subunit uS12 (RPS23), thereby regulating protein translation termination efficiency. Involved in stress granule formation.[UniProtKB/Swiss-Prot Function]

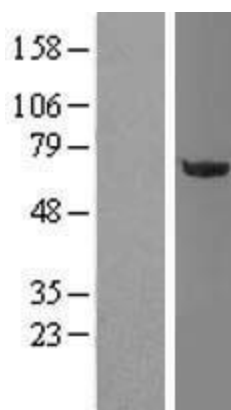
Product images:



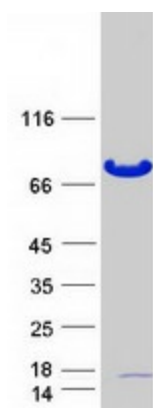
Circular map for RC206839



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY OGFOD1 (Cat# RC206839, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-OGFOD1 (Cat# [TA502364]). Positive lysates [LY413213] (100ug) and [LC413213] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413213]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206839 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OGFOD1 protein (Cat# [TP306839]). The protein was produced from HEK293T cells transfected with OGFOD1 cDNA clone (Cat# RC206839) using MegaTran 2.0 (Cat# [TT210002]).