

Product datasheet for **MG207816**

Ogfod1 (BC040267) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ogfod1 (BC040267) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ogfod1
Synonyms:	4930415J21Rik; AA387199; AA939912; AW061076; mKIAA1612
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG207816 representing BC040267
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAAGAAGGAAAGAAGCAGGTATCGGCAGAGTTTTTCGACGCTGTCTACTGAAGAAATCCTGAGGAAGC
 AGGTGGCTGAGGCCTGGAGCTGCCGGACACCGTTCAGCCATGAAGCTATTGCCTTGACATGGATCCTTT
 CCTTCACTGTGTGATCCAAACTTCATCCAAAGCCAAGACTTCTTGAAGGACTTCACAAAGAGCTTTTG
 AGCCTGGACTTCCATGAAAAGTACAATGATTTATATAAGTTCCAACAGTCTGATGATTTGAAGAACCGAA
 AAGAGCCCCATATCTCAGCTTTAAGGAACTTATGTTTGAAGATTTTCGGGCCTGGCTTTCTAAGGTTTC
 CGGCATTGACCTAGAACCAACCATTGACATGTCGTGTGCGAAATACGAGTTCAGTATGCTCTGCTCTGC
 CATGATGATGAAGTGGAGGGGCGCCGGATCGCTTTTCTTGTACCTGGTTCCTTCTTGGGACAGGGACT
 TGGGGGGCACCTGGACCTTTATGACACTGATGAACACTTGCAGCCAAAGCAGATTGTCAAGTCTCTTAT
 CCCTTCTGGAACAACTGGTTTTCTTTGAAGTGTCTCCAGTATCCTTTACCAGCATGAAATTTTATAT
 GAGTGGATCAACCCTGCTTACCTGGAAATGGATTATCAAATGCAAATTCAGAAGAATTTGAAGAAAGGT
 CTGAAATTCCTCTGAAGGAGTTTCTTAAGCCTGAGAAATTTGCAGAGGTCTGTGAAGCCTTGGAGAAAGG
 AGATGTGGAATGGAAAAGCCATGGTCCCCCAAACAAAGGTTTTATGAGAAAGCAGAAGAAAATAACCTC
 CCTGACGTGCTGAAGGAATGCATGGGCCTGTTCCGCTCTGAGGCGCTCTTCTGCTGCTCTCCAACCTCA
 CTGGCCTGAAGCTTCACTTCTTGGCCCCCTCAGAAGATGATGAGACTGAGGAGAAAGGAGAGGGGGAGAC
 AGCCAGTGCTGCTGCTGGCACTGAAGAAGGGACTAGCCGACGCCCCTCGGGGCCAGAGAATAATCAGGTG
 GCCGCTGGCAGTCACAGTCAAGAGAACGGTGAACAGGCAGACCCAGAAGCACAGGAAGAGGAAGCAAAGA
 AAGAATCGAGCGTTCCCATGTGCCAGGGGAGCTGAGGCGTTGGAAGACTGGCCATTACACATTAGTCCA
 CGACAACACCAAGACTGAATTTGCCCTGGACCTGTTTCTGTAAGTGTGGCTGTGAAGGCTGGGAGCCCGAA
 TATGGCGGCTTTACCTCTACATTGCTAAAGGTGAAGATGAAGAGCTGCTCATAGTGAATCCAGAAAACA
 ACTCTTTGGCGTTGGTCTACAGAGACAGAGAAACGCTGAGGTTTGTGAAACACATCAACCACCGCAGCCT
 AGAGCAGAGCAAAGCCTTCCAAGCAGAAGCGGCTTCTGGGACTTCGCATTCTACTATGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207816 representing BC040267
 Red=Cloning site Green=Tags(s)

MKKGKKQVSAEFSDAVTEEILRKQVAEAWSCRTPFSEAIALDMDPFLHCVIPNFIQSQDFLEGLHKELL
 SLDFHEKYNDLYKFQQSDDLKNRKEPHISALRKLMFEDFRAWLSKVSGIDLEPTIDMSCAKYEFTDALLC
 HDDELEGRRIAFILYLVPWDRDLGGTLDLYDTDEHLQPKQIVKSLIPSWNKL VFEVSPVSFHQHEILY
 EWINPAYLEMDYQMQUIQEEFEERSEILLKEFLKPEKFAEVCEALEKGDVEWKSHGPPNKRIFYEKAENNLL
 PDVLKECMGLFRSEALFLLLNLTLGLKLHFLAPSEDDTEEKGEGETASAAAGTEEGTSRRPSGPENNV
 AAGSHSQENGEQADPEAQEEAAKKESSVPMQCGELRRWKTGHYTLVHDNTKTEFALDLFLYCGCEGWEPE
 YGGFTSYIAKGEDEELLIIVNPENNSLALVYRDRETLRFVKHINHRSLQSKAFPSRSGFWDFAFIYYE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC040267

ORF Size: 1466 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: [BC040267](#), [AAH40267](#)

RefSeq Size: 5160 bp

RefSeq ORF: 1466 bp

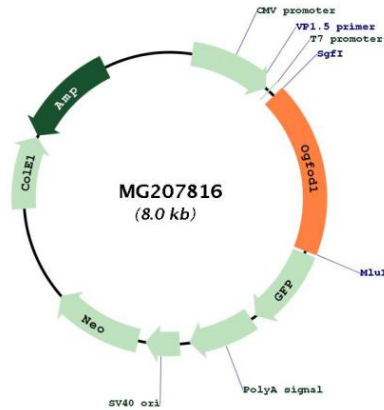
Locus ID: 270086

Cytogenetics: 8 C5

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 MG207816