

Product datasheet for **MG216856**

Ogfod1 (NM_177767) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



ORF Nucleotide Sequence: >MG216856 representing NM_177767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAACGGGAAGCGCCGGGATCCTGGCCAGCGCGCCAATGAAGAAGGAAAGAAGCAGGTATCGG
 CAGAGTTTTCGGACGCTGCTCACTGAAGAAATCCTGAGGAAGCAGGTGGCTGAGGCCTGGAGCTGCCGGAC
 ACCGTTTCAGCCATGAAGCTATTGCCTTGGACATGGATCCTTTCCTTCACTGTGTGATCCAAAATTCATC
 CAAAGCCAAGACTTCTTGAAGGACTTCAAAAAGACTTTTGGACCTGGACTTCCATGAAAAGTACAATG
 ATTTATATAAGTTCCAACAGTCTGATGATTTGAAGAACCAGAAAAGAGCCCCATATCTCAGCTTAAAGGAA
 ACTTATGTTTGAAGATTTTCGGGCCTGGCTTTCTAAGGTTTCCGGCATTGACCTAGAACCAACCATTGAC
 ATGTCGTGTGCGAAATACGAGTTCCTGATGCTCTGCTCTGCCATGATGAACTGGAGGGGCGCCGGA
 TCGCTTTCATTCTGTACCTGTTCTTCTTGGGACAGGGACTTGGGGGACCCCTGGACCTTATGACAC
 TGATGAACACTTGCAGCCAAAGCAGATTGTCAAGTCTCTTATCCCTTCCCTGGAACAACTGGTTTTCTTT
 GAAGTGTCTCCAGTATCCTTTCACCAGGTGTCTGAAAGTCTGTCTGAAGAAACATCACGTTTGTCTATAA
 GTGGCTGGTTTTATGGTCTTCATTAACCAGGCCTCCTACCTACTTTGAGCCCCAATCCCTCGAAACCC
 TCACATCCCAAGATCATGAAATTTATATGAGTGGATCAACCCTGCTTACCTGGAATGGATTATCAA
 ATGCAAATTCAGAAGAATTTGAAGAAAGGTCTGAAATTCCTGAAGGAGTTTCTTAAAGCTGAGAAAT
 TTGCAGAGGTCTGTGAAGCCTTGGAGAAAGGAGATGTGAAATGGAAGCAATGGTCCCCAAACAAAAG
 GTTTTATGAGAAAGCAGAAGAAAATAACCTCCCTGACGTGCTGAAGGAATGCATGGGCCTGTTCCGCTCT
 GAGGCGCTCTTCTGCTCTCCAACCTCACTGGCCTGAAGCTTCACTTCTTGGCCCTTCAGAAGATG
 ATGAGACTGAGGAGAAAGGAGAGGGGAGACAGCCAGTCTGCTGCTGGCACTGAAGAAGGGACTAGCCG
 ACGCCCTCGGGCCAGAGAATAATCAGGTGGCCGCTGGCAGTCAAGTCAAGGAAACGGTGAACAGGCA
 GACCCAGAAGCACAGGAAGAGGAAGCAAAGAAAAGAAATCGAGCGTTCATGTCAGGGGGAGCTGAGGC
 GTTGAAGACTGGCCATTACACATTAGTCCACGACAACACCAAGACTGAATTTGCCCTGGACCTGTTTCT
 GTACTGTGGCTGTGAAGGCTGGGAGCCGAATATGGCGGCTTACCTCCTACATTGCTAAAGGTGAAGAT
 GAAGAGTGTCTCATAGTGAATCCAGAAAACAACCTTTGGCGTTGGTCTACAGAGACAGAGAAACGCTGA
 GGTTTGTGAAACACATCAACCACCGCAGCTAGAGCAGAGCAAAGCCTTCCAAGCAGAAGCGGCTTCTG
 GGACTTCGATTCTACTATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216856 representing NM_177767
 Red=Cloning site Green=Tags(s)

MNGKRPADPGPARPMKKGKKQVSAEFSDAVTEEILRKQVAEAWSCRTPFSHEIALDMDPFLHCVIPNFI
 QSQDFLEGLHKELLSLDFHEKYNDLYKFQQSDDLKNRKEPHISALRKLMFEDFRWLKSVSGIDLEPTID
 MSCAKYEFTDALLCHDDELEGRRIAFILYLVPWDRDLGGTLDLYDTDEHLQPKQIVKSLIPSWNKL VFF
 EVSPVFSHQVSEVLSEETSRLSISGWFYGPSLTRPPTYFEPPIPRNPHIPQDHEILYEWINPAYLEMDYQ
 MQIQEEFEERSEILLKEFLKPEKFAEVCEALEKGDVEWKSHGPPNKRIFYEKAENNLDPVLKCEMGLFRS
 EALFLLL SNLTGLKLHFLAPSEDDETEKGEGETASAAAAGTEEGTSRRPSGPENNVAAAGSHSQENGEQA
 DPEAQEEEAKKESVPMQGE LRRWKTGHYTLVHDNTKTEFALDLFLYCGCEGWEPEYGGFTSYIAKGED
 EELLIVNPENNSLALVYRDRETLRFVKHINHRSLEQSKAFPSRSGFWDFAFIYYE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_177767

ORF Size: 1635 bp

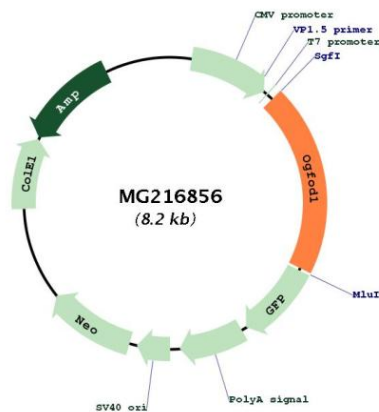
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_177767.4, NP_808435.3</u>
RefSeq Size:	5329 bp
RefSeq ORF:	1638 bp
Locus ID:	270086
UniProt ID:	<u>Q3U0K8</u>
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 MG216856