

Product datasheet for **RG228358**

JMJD4 (NM_001161465) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JMJD4 (NM_001161465) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JMJD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228358 representing NM_001161465 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCGTGCAAGCCCGGAGCCCCAGGCGCTGGCGGGGCAGAAACGCGGCGCCCTGCGTCTTCTGGTTCCGA
GGCTGGTCTCACCGTTTCCGCTCCGGCGGAAGTGAGGAGGAGGGTCTTCGACCCGTGCTGAGCTGGAT
GGACCGCGAGACGCGCGCCCTCGCCGACAGCCACTTCGAGGCCCTGGGGTTCGATGTCCCGGCGTCCGC
CAGGCTCCGGGCGGGTAGCCTTCGTCTCGGAGCCGGGCGCCTTCTCCTACGCCGACTTTGTGCGGGGCT
TCTTGCTGCCAACCTGCCCTGCGTGTTCAGCGCCTTCACGCAGGGCTGGGGCAGCCGCGCGCTG
GGTGACGCCCGCGGGGAGGCCGACTTCGACCACCTGCTACGGACCTACGGAGACGTGGTTGTACCACTT
GCAAACTGTGGGTCCAGGAATACAACCTCGAACCCCAAAGAGCACATGACTCTCAGAGACTACATCACCT
ACTGGAAGAGTACATACAGGCGGGCTACTCCTCTCCAGGGGCTGTCTTACCTCAAAGACTGGCACTT
GTGCAGGGACTTTCGGTGGAGGACGTTTTACCCTGCCTGTGTACTTCTCGTCCGACTGGCTGAATGAG
TTCTGGGATGCACTGGATGTGGATGACTACCGCTTGTCTACGCGGGGCTGCGGGCAGCTGGTCCCCGT
TCCATGCTGACATCTCCGCTCCTTCAGCTGGTCTGTCAATGTCTGTGGGAGGAAGAAGTGGCTCCTCTT
CCCCCAGGGCAGGAAGAGGCCCTGCGGACCGCCACGGCAACCTGCCCTACGACGTGACCTCCCCAGCA
CTCTGCGACACACCTGCACCCACGGAACCACTTGTGCCCCACCCTTGAGATCACGCAGGAAGCGG
GCGAGATGGTGTGTGCCCCAGTGGCTGGCACCACCAAGGTGCACAACCTGGATGACACCATCTCCATCAA
CCACAACCTGGGTCAATGGCTTCAACCTGGCCAACATGTGGCGCTTCTTGACGAGGAGCTATGCGCCGTG
CAGGAGGAGGTCACTATGAGGTCTGCTCGGGCATCACTTTGAAGAGTTTACCACTTCTCAAGGTCA
TCGCTGAGAAGAGGCTCTGGTCTGAGGGAGGCGCGCTGAGGACGGTGTGGTTGGGTTTCGAACA
GGCAGCCTTTGATGTTGGGCGCATCACAGAGGTGCTGGCTCCTTGTTGCGACCCCGACTTCCAGAGA
GTGGACACCGCGCTTCTACCACAGCCCAAAGAGCTGCTGCAGCAGCTGAGAGAGGCTGTTGATGCTG
CTGCGGCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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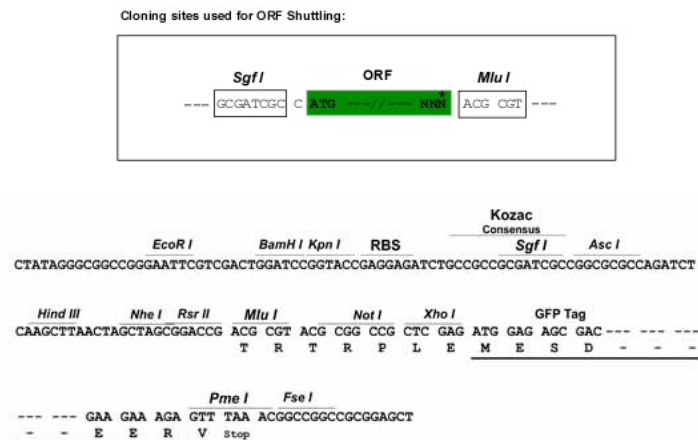
Protein Sequence: >RG228358 representing NM_001161465
 Red=Cloning site Green=Tags(s)

MRAGPEPQALAGQKRGALRLLVPRLVLTVSAPAEVRRRLRPVLSWMDRETRALADSHFRGLGVDVPGVG
 QAPGRVAFVSEPGAFSYADFVRGFLLPNLPCVFSSAFTQGWGSRRRWVTPAGRPDFDHLRLTYGDVVVPV
 ANCGVQEYNSNPKEHMTLRDYITYWKEYIQAGYSSPRGCLYLKDWHLCRDFPVEDVFTLPVYFSSDWLNE
 FWDALDVDDYRFVYAGPAGSWSPFHADIFRSFSWSVNVCGRKKWLLFPPGQEEALRDRHGNLPYDVTSPA
 LCDTHLHPRNQLAGPPLEITQEAGEMVFPSPGWHHQVHNLDDTISINHNWVNGFNLANMWRFLQQELCAV
 QEEVIMRSCSGINFEEFYHFLKVIAEKRLLVLEAAAEDGAGLGFEQAAFDVGRITEVLASLVAHPDFQR
 VDTSAFSPQPKELLQQLREAVDAAAAP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161465

ORF Size: 1341 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_001161465.1, NP_001154937.1

RefSeq Size: 2564 bp

RefSeq ORF: 1206 bp

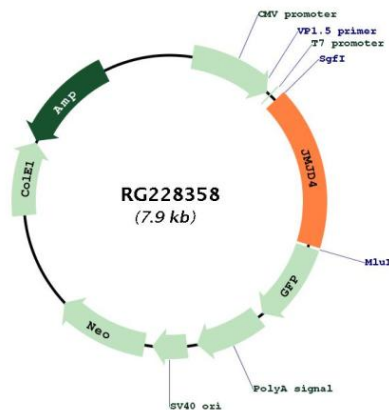
Locus ID: 65094

UniProt ID: Q9H9V9

Cytogenetics: 1q42.13

Gene Summary: Catalyzes the 2-oxoglutarate and iron-dependent C4-lysyl hydroxylation of ETF1 at 'Lys-63' thereby promoting the translational termination efficiency of ETF1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG228358