

Product datasheet for **RC228358**

JMJD4 (NM_001161465) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | JMJD4 (NM_001161465) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | JMJD4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC228358 representing NM_001161465
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGTGCAGGCCCGAGCCCCAGGCGCTGGCGGGCAGAAACGCGGCGCCCTGCGTCTTCTGGTCCGA
 GGCTGGTCTCACCGTTTCCGCTCCGGCGAAGTGAGGAGGAGGGTCTTCGACCCGTGCTGAGCTGGAT
 GGACCGGAGACGCGGCCCTCGCCGACAGCACTTCCGAGGCCTGGGGTTCGATGTCCCGGCGTCGGC
 CAGGCTCCGGGCCGGTAGCCTTCGTCTCGGAGCCGGCGCCTTCTCTACGCCGACTTTGTGCGGGGCT
 TCTTGCTGCCAACCTGCCCTGCGTGTTCAGCGCCTTACGCAGGGCTGGGGCAGCCGGCGGCGCTG
 GGTGACGCCCGGGGAGGCCGACTTCGACCACCTGCTACGGACCTACGGAGACGTGGTGTACCAAGTT
 GCAAACGTGGGGTCCAGGAATAAACAACCGAACCCAAAGAGCACATGACTCTCAGAGACTACATCACT
 ACTGAAAAGATACATACAGGCGGGCTACTCCTCTCCAGGGGCTGTCTACCTCAAAGACTGGCACTT
 GTGACGGGACTTCCGGTGGAGGACGTTTTACCTGCCTGTGTACTTCTCGTCCGACTGGCTGAATGAG
 TTCTGGGATGCACTGGATGTGGATGACTACCGCTTGTCTACGGCGGGCCGCGGGCAGCTGGTCCCGCT
 TCCATGCTGACATCTCCGCTCCTTCAGCTGGTCTGTCAATGTCTGTGGGAGGAAGAAGTGGCTCCTCTT
 CCCCCAGGGCAGGAAGAGGCCCTGCGGGACCGCCACGGCAACCTGCCCTACGACGTGACCTCCCGAGCA
 CTCTGCGACACACACTGCACCCACGGAACCAGCTTGTGGCCACCCCTTGAGATCACGCAGGAAGCGG
 GCGAGATGGTGTGGTGGCCAGTGGCTGGCACCACAGGTGCACAACCTGGATGACACCATCTCCATCAA
 CCACAACGGGTCAATGGCTTCAACCTGGCCAACATGTGGCGCTTCTGCAGCAGGAGCTATGCGCCGTG
 CAGGAGGAGGTGATCATGAGGTCCTGCTCGGCATCAACTTTGAAGAGTTTTACCACTTCTCAAGGTCA
 TCGCTGAGAAGAGGCTCCTGGTCTGAGGAGGCAGCCGCTGAGGACGGTGTGGGTTGGGTTTCGAACA
 GGCAGCCTTTGATGTTGGGCGCATCACAGAGGTGCTGGCCTCCTGGTTGCGCACCCCGACTTCCAGAGA
 GTGGACACCAGCGCTTCTACCCACAGCCAAAGAGCTGCTGCAGCAGCTGAGAGAGGCTGTTGATGCTG
 CTGCGGCCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228358 representing NM_001161465
 Red=Cloning site Green=Tags(s)

MRAGPEPQALAGQKRGALRLLVPRLVLTVSAPAEVRRRVLRPVL S WMDRETRALADSHFRGLGVDVPGVG
 QAPGRVAFVSEPGAFSYADFVRGFLPNLPCVFSSAFTQGWGSRRRWVTPAGRPDFDHLRLTYGDVVVVPV
 ANCGVQEYNSNPKEHMLRDYITYWKEYIQAGYSSPRGCLYLKDWHLCRDFPVEDVFTLPVYFSSDWLNE
 FWDALDVEDDYRFVYAGPAGSWSPFHADIFRSFSWSVNVCGRKKWLLFPPGQEEALRDRHGNLPYDVTSPA
 LCDTHLHPRNQLAGPPLEITQEAGEMVFPVSGWHHQVHNLDDTISINHNWVNGFNLANMWRFLQQLCAV
 QEEVIMRSCSGINFEEFYHFLKVI AEKRLLVLEAAAEDGAGLGFEQAAFVGRITVLAASLVAHPDFQR
 VDTSAFSPQPKELLQLREAVDAAAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8039_b03.zip

Restriction Sites:

Sgfl-Mlul

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 ORF: 1206 bp

Locus ID: 65094

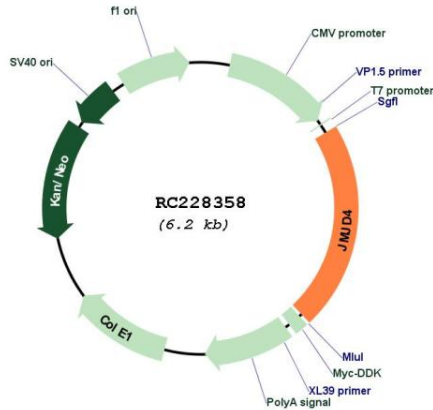
UniProt ID: [Q9H9V9](#)

Cytogenetics: 1q42.13

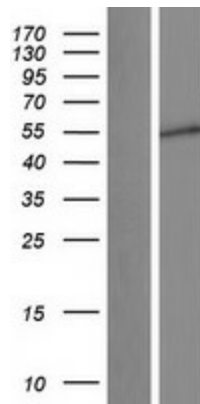
MW: 50.3 kDa

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 RC228358



Western blot validation of overexpression lysate (Cat# [LY431386]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228358 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).