

Product datasheet for **RG224840**

FAM105B (OTULIN) (NM_138348) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM105B (OTULIN) (NM_138348) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FAM105B
Synonyms: AIPDS; FAM105B; GUM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224840 representing NM_138348
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCGGGGACTATGCCCCAGCCGAAGCGTGGCCAGGCGGAGCTGCGCCGAGACGCCGGCGGG
AGGCGGGCCACGGCGGGGACGGCGGAAGGCGGGCCAGCGGGCAGCCGGCCGAGATGCAGTG
CCCGCCGAGCATGAGGAGGACATGTACCGTGTGCAGATGAAATAGAAAAGGAGAAAGAATTGCTTATA
CATGAAAGAGGGGCATCAGAACCGAGATTAAGCGTAGCTCCTGAAATGGATATCATGGACTACTGCAAAA
AAGAATGGAGAGGAAATACACAGAAAGCAACGTGTATGAAATGGGCTATGAAGAGTTTCTCAGAAGTT
CACCTCCATACGGCGAGTCCGTGGTGATAATTACTGTGCACTGAGGGCCACGCTGTTCCAGGCCATGAGC
CAGGCTGTGGGGCTGCCGCCCTGGCTGCAGGACCCGGAGCTCATGCTGTTACCAGAAAACTCATAAGCA
AATACAACCTGGATCAAGCAATGAAAACCTGGACTGAAATTTGATGGGAAGAATGAGGACCTGGTTGATAA
AATTAAGAGTCCCTTACTCTGCTGAGGAAGAAGTGGGCAGGCTGGCTGAAATGAGAACTGCTGAAGCA
AGACAGATAGCTTGTGATGAACTATTCACAAATGAGGCGGAGGAATATAGCCTCTATGAAGCTGTAAGT
TTCTAATGCTAACAGAGCCATTGAACTATATAATGATAAAGAGAAAGGAAAGGAAGTACCATTTTCTC
TGTGCTTCTGTTGCTCGGGACACATCAAATGACCCAGGACAGCTTCTGAGGAACCACTCAACCCAGGTG
GGACACTGGTGGTCTTGAACAGGTTGAAATGTTCTTCTTGCCTATGCTGTGCGCCACACCATCCAGG
TGTACCGCTCTCCAAGTACAACACGGAAGAATTCATCACAGTCTACCCACCGACCCACCAAGGACTG
GCCAGTGGTAACGCTCATTGCTGAGGACGATCGGCACTATAACATCCCCGTCAGAGTGTGTGAGGAGACC
AGTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224840 representing NM_138348
Red=Cloning site Green=Tags(s)

MSRGTMPQPEAWPGASCAETPAREAAATARDGGKAAASGQPRPEMQCPAEHEEDMYRAADEIEKEKELLI
 HERGASEPRLSVAPEMDMDYCKKEWRGNTQKATCMKMGYEEVSQKFTSIRRVRGDNYCALRATLRFQAMS
 QAVGLPPWLQDPELMLLPEKLI SKYNWIKQWKLGLKFDGKNEDLVDKIKESLTLRKKWAGLAEMRTAEA
 RQIACDELFTNEAEEYSLYEAVKFLMLNRAIELYNDKEKGKEVPPFFSVLLFARDTSDNDPGQLLRNHLNQV
 GHTGGLEQVEMFLLAYAVRHTIQVYRLSKYNTEEFITVYPTDPPKDWPVVTLIAEDDRHYNIPVRVCEET
 SL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2186_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138348

ORF Size: 1056 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_138348.6](#)

RefSeq Size: 7896 bp

RefSeq ORF: 1059 bp

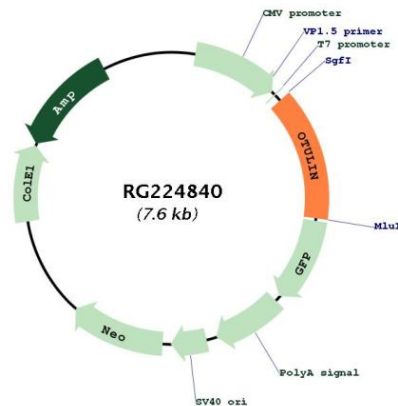
Locus ID: 90268

UniProt ID: [Q96BN8](#)

Cytogenetics: 5p15.2

Gene Summary: This gene encodes a member of the peptidase C65 family of ubiquitin isopeptidases. Members of this family remove ubiquitin from proteins. The encoded enzyme specifically recognizes and removes M1(Met1)-linked, or linear, ubiquitin chains from protein substrates. Linear ubiquitin chains are known to regulate the NF-kappa B signaling pathway in the context of immunity and inflammation. Mutations in this gene cause a potentially fatal autoinflammatory syndrome in human patients. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG224840