

Product datasheet for SC325804

OTUD5 (NM_001136159) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: OTUD5 (NM_001136159) Human Untagged Clone
 Tag: Tag Free
 Symbol: OTUD5
 Synonyms: DUBA; MCAND
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >SC325804 representing NM_001136159.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

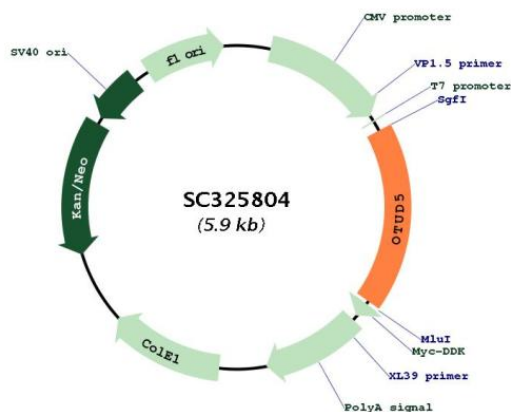
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GCTCGTTTGTGAACCGTCAGAATTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
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GAGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAATATGTCACA
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GCCATGGCAGAGATGTACAACCGTCCTGTGGAGGTGTACCAGTACAGCACAGAACCACATCAACACATTC
CATGGGATACATCAAAACGAGGACGAACCCATTCGTGTTAGCTACCATCGGAATATCCACTATAATTCA
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GACAAGAAACGGGCCACAGACTGGGAGGCCACAAATGAAGCCATCGAGGAGCAGGTGGCTCGGGAATCC
TACCTGCAGTGGTTGCGGGATCAGGAGAAAACAGGCTCGCCAGGTCCGAGGCCAGCCAGCCCCGAAA
GCCAGCGCCACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTGGAGGAGTGGACTAGCCGGTCC
CCGCGGCAGCGGAGTTGAGCCTCGTACCTGAGCACCTGAGCTGCATGCTGAATTGGGCATGAAGCCC
CCTTCCCAGGCACTGTTTTAGCTCTTGCCAAACCTCCTTCGCCCTGTGCCAGGTACAAGCAGTCAG
TTCTCGGCAGGGGCCGACCGGGCAACTTCCCCCTTGTGTCCCTACCTGCTTTGGAGTGCCGGGCC
CTCATTAGCAGATGTCCTTCTGCCTTGGTCTGAATGACTGGGATGATGATGAGATCCTAGCTTCG
GTGCTGGCAGTGTCCCAACAGGAATACCTAGACAGTATGAAGAAAAACAAGTGCACAGAGACCCGCC
CCAGACAAGAGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001136159

Insert Size: 1050 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001136159.1](#)

RefSeq Size: 2426 bp

RefSeq ORF: 1050 bp

Locus ID: 55593

UniProt ID: [Q96G74](#)

Cytogenetics: Xp11.23

Protein Families: Protease

Protein Pathways: RIG-I-like receptor signaling pathway

MW: 39.2 kDa

Gene Summary: This gene encodes a member of the OTU (ovarian tumor) domain-containing cysteine protease superfamily. The OTU domain confers deubiquitinase activity and the encoded protein has been shown to suppress the type I interferon-dependent innate immune response by cleaving the polyubiquitin chain from an essential type I interferon adaptor protein. Cleavage results in disassociation of the adaptor protein from a downstream signaling complex and disruption of the type I interferon signaling cascade. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Oct 2008]

Transcript Variant: This variant (4) contains an alternate in-frame exon in the 5' coding region and uses a downstream start codon, compared to variant 1. The resulting protein (isoform c) has a shorter N-terminus, compared to isoform a.