

Product datasheet for **SC333807**

Fucose mutarotase (FUOM) (NM_001301827) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fucose mutarotase (FUOM) (NM_001301827) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUOM
Synonyms:	C10orf125; FucM; FUCU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333807 representing NM_001301827. Blue=Insert sequence Red=Cloning site Green=Tag(s)

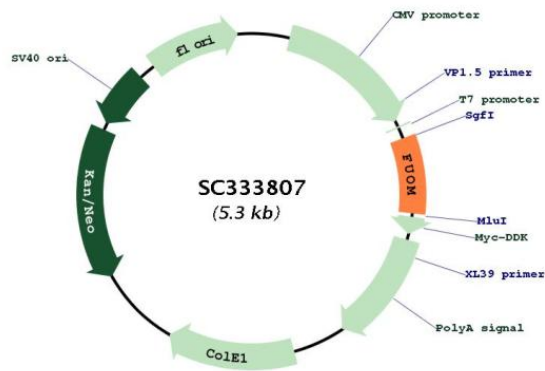
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GTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGGCGTGAAGGGTGTCCCGCACTGCTGTCCCGAGCTGCTCTACGCGCTGGCGGGATGGGG
CACGGGGACGAGATCGGCCTGGGCATCCCGCAGCTCCTGGAGCCGTGCTGAAGCTGCTGCCCTGGAC
ACCTATGTGGAGAGTCCGGCTGCAGTCATGGAGCTGGTCCCAGCGACAAGGAGAGGGCCCTGCAGACC
CCAGTGTGGACGGAGTACGAGTCCATCCTACGCAGGGCCGGCTGTGTGAGAGCCCTGGCAAAGATAGAG
AGGTTTGAGTTTATGAACGGGTAAGAAGGCTTTTGTGTTGTGGCAACGGGGGAGACGGCCCTCTAC
GGAAACCTCATCCTCAGGAAGGGGTGCTTGCCCTCAACCCCTGCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001301827

Insert Size: 396 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).

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_001301827.1](#)

RefSeq Size: 630 bp

RefSeq ORF: 396 bp

Locus ID: 282969

UniProt ID: [A2VDF0](#)

Cytogenetics: 10q26.3

MW: 14.3 kDa

Gene Summary: Involved in the interconversion between alpha- and beta-L-fucoses. L-Fucose (6-deoxy-L-galactose) exists as alpha-L-fucose (29.5%) and beta-L-fucose (70.5%), the beta-form is metabolized through the salvage pathway. GDP-L-fucose formed either by the de novo or salvage pathways is transported into the endoplasmic reticulum, where it serves as a substrate for N- and O-glycosylations by fucosyltransferases. Fucosylated structures expressed on cell surfaces or secreted in biological fluids are believed to play a critical role in cell-cell adhesion and recognition processes.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (3) that is shorter than isoform 1.