

Product datasheet for SC307711

Fucose mutarotase (FUOM) (NM_198472) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Fucose mutarotase
Synonyms:	C10orf125; FucM; FUCU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >SC307711 representing NM_198472.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGGCGCTGAAGGGTGTCCCCGCACTGCTGTCCCCGAGCTGCTACGCGCTGGCGCGGATGGGG
CACGGGGACGAGATCGTTCTTGCGGACTTGAACCTCCCGGCCCTCCTCCATCTGCCAGTGTGGGCCCATG
GAGATCCGTGCAGACGGCCTGGGCATCCCGCAGCTCCTGGAGGCCGTGCTGAAGCTGCTGCCCTGGAC
ACCTATGTGGAGAGTCCGGTGCAGTCATGGAGCTGGTGGCCAGCGACAAGGAGAGGGGCCCTGCAGACC
CCAGTGTGGACGGAGTACGAGTCCATCCTACGCAGGGCCGGCTGTGTGAGAGCCCTGGCAAAGATAGAG
AGGTTTGAAGTTTATGAACGGGCTAAGAAGGCTTTTGCTGTTGTGGCAACGGGATGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

ACCN: NM_198472

Insert Size: 405 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_198472.2</u>
RefSeq Size:	768 bp
RefSeq ORF:	405 bp
Locus ID:	282969
UniProt ID:	<u>A2VDF0</u>
Cytogenetics:	10q26.3
MW:	14.6 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 (2) contains an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct and shorter C-terminus, compared to isoform 1.