

Product datasheet for **MR228217**

Fuom (NM_001286217) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fuom (NM_001286217) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fuom
Synonyms: Fucu; Le51
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228217 representing NM_001286217
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGCGCTCAAGGGCATCCCGAAGGTGCTGTCTCCTGAGCTGTTGTTTCGCGCTTGC GCGGATGGGGC
ATGGAGACGAAATTGTCCTTGCTGATGCGAACTCCCTACCTCCTCCATCTGCCAGTGCGGACCTGTGGA
GATCCGAGCAGACGGCCTGGACATCCACAGCTTCTGGAGGCTGTGCTGAGGCTCCTGCCCTGGACACC
TACGTGGAAGCCCGGCTGCTGTCATGGACCTGGTCCCCAGTGACAAGGAGAAGGGCCTGCAGACCCCGA
TATGGAAGCGTTATGAATCCCTTCTTCTCGAAGCTGACTGTAAAAAACCTGATGAAGCTAGAGAGATT
TGAATTTTATGAACGTGCAAAAAGGCATTTGCTGTGGTTGCAACCGGCAACCAGACCTGGACATCAGCC
TCGGGCTCAAGAAGATGGCAGATCTTGAGAGACTCTGCTGACCCTGACAAATCCCCCTTCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228217 representing NM_001286217
Red=Cloning site **Green**=Tags(s)

MVALKGIPKVLSPPELLFALARMGHGDEIVLADANFPTSSICQCGPVEIRADGLDIPQLLEAVLRLLPLDT
YVESPAAYMDLVPDKEKGLQTPIWKRYESLLLEADCKKTLMKLERFEFYERAKKAFVAVATGNQWTSA
SGSRRWQILRDSADPDKFPLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001286217

ORF Size: 483 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001286217.2](#)

RefSeq Size: 2256 bp

RefSeq ORF: 486 bp

Locus ID: 69064

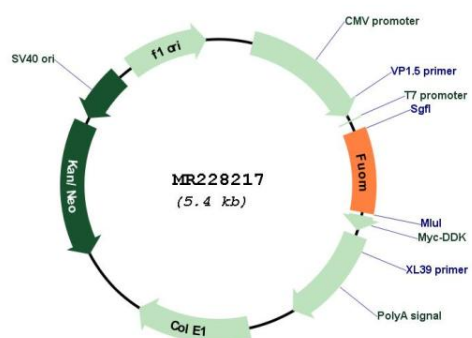
UniProt ID: Q8R2K1

Cytogenetics: 7 F4

MW: 18.4 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]

Product images:



Circular map for MR228217