

## Product datasheet for **RG235913**

### Fucose mutarotase (FUOM) (NM\_001301827) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fucose mutarotase (FUOM) (NM\_001301827) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fucose mutarotase  
**Synonyms:** C10orf125; FucM; FUCU  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235913 representing NM\_001301827.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGGCGCTGAAGGTGTCCCGCACTGCTGTCCCGAGCTGCTCTACGCGCTGGCGGGATGGGG
CACGGGGACGAGATCGGCCTGGGCATCCCGCAGCTCCTGGAGGCCGTGCTGAAGCTGCTGCCCTGGAC
ACCTATGTGGAGAGTCCGGCTGCAGTCATGGAGCTGGTGGCCAGCGACAAGGAGAGGGCCCTGCAGACC
CCAGTGTGGACGGAGTACGAGTCCATCCTACGCAGGGCCGGCTGTGTGAGAGCCCTGGCAAAGATAGAG
AGGTTTGAGTTTTATGAACGGGTAAGAAGGCTTTTGTGTTGTGGCAACGGGGGAGACGCCCTCTAC
GGAAACCTCATCCTCAGGAAGGGGTGCTTGCCTCAACCCCTGCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235913  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MVALKGVPELLSPELLYALARMGHGDEIQLGIPQLLEAVLKLLPLDITYVESPAAVMELVPSDKERGLQT
PVWTEYESILRRAGCVRALAKIERFEFYERAKKAFVAVATGETALYGNLILRKGVLALNPLL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_001301827

ORF Size: 393 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).

RefSeq: [NM\\_001301827.2](#)

RefSeq Size: 630 bp

RefSeq ORF: 396 bp

Locus ID: 282969

UniProt ID: [A2VDF0](#)

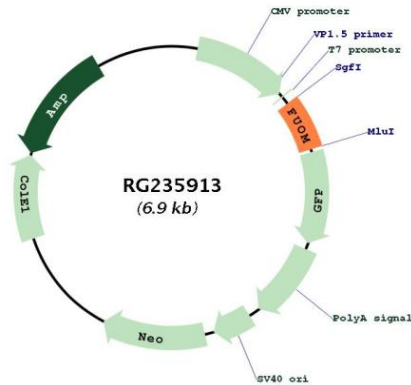
Cytogenetics: 10q26.3

MW: 14.8 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 RG235913