

## Product datasheet for **RG240236**

### C10orf112 (MALRD1) (NM\_001142308) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf112 (MALRD1) (NM_001142308) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C10orf112
Synonyms:	bA265G8.2; C10orf112; DIET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240236 representing NM_001142308. Blue=ORF Red=Cloning site Green=Tag(s)

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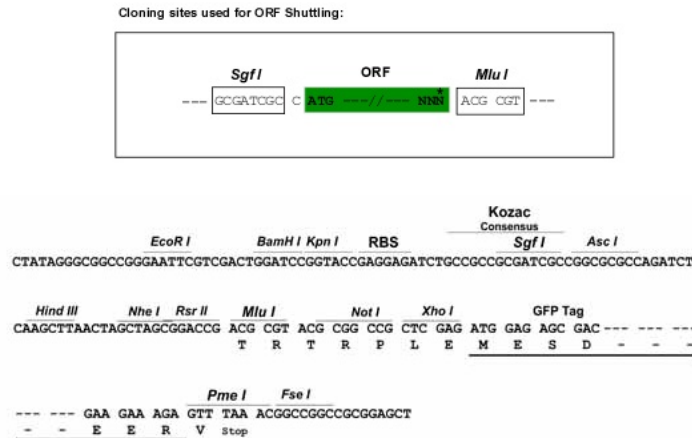
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG240236  
 Blue=ORF Red=Cloning site Green=Tag(s)

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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001142308

**ORF Size:** 6468 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\\_001142308.3](#)

**RefSeq Size:** 6880 bp

**RefSeq ORF:** 6471 bp

**Locus ID:** 340895

**UniProt ID:** [Q5VYJ5](#)

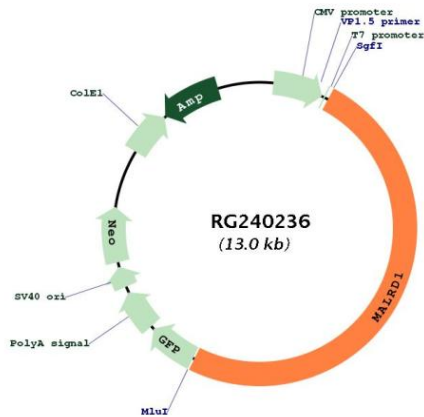
**Cytogenetics:** 10p12.31

**Protein Families:** Druggable Genome

**MW:** 241.5 kDa

**Gene Summary:**

This gene encodes a conserved protein that features multiple MAM (meprin-A5-protein tyrosine phosphatase mu) and LDLR A2 (low density lipoprotein receptor A2) domains. Expression of this gene is enriched in the small intestine and is upregulated during differentiation of a human cell line that exhibits properties of intestinal epithelial cells. The encoded protein has been shown to modulate production of FGF19 in a human intestinal cell line and may regulate bile acid metabolism in the liver. A synergistic interaction between an allele of this gene and the APOE E4 allele is associated with an elevated risk of Alzheimer's disease in human patients. [provided by RefSeq, Jul 2017]

**Product images:**


Circular map for RG240236