

Product datasheet for **RG202607**

Malectin (MLEC) (NM_014730) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Malectin (MLEC) (NM_014730) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Malectin
Synonyms:	KIAA0152
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202607 representing NM_014730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGCTGGGAGCCTGGGCGGTTGAGGGAACCGCTGTGGCGCTCCTGCGACTGCTGCTGCTGCTGCCGC
CGGCGATCCGGGACCCGGGCTCGGCGTGGCCGGCGTGGCCGGCGCGGGGGCCGGGCTGCCGAGAG
CGTCATTTGGGCGGTCAACGCGGTTGAGAGGCGCATGTGGACGTGCACGGGATCCACTTCCGCAAGGAC
CCTTTGGAAGGCCGGTGGGCCGAGCCTCAGACTATGGCATGAACTGCCAATCCTGCGTTCCAACCTG
AGGACCAGATCCTGTATCAAACCTGAGCGGTACAATGAGGAGACCTTTGGCTACGAAGTGCCATCAAAGA
GGAGGGGACTACGTGCTGGTCTTGAAATTTGCAGAGGTCTACTTTGCACAGTCCAGCAAAGGTATTT
GATGTACGATTGAATGGCCACGTCGTGGTGAAGGACTTGGATATCTTTGATCGTGTGGGATAGCACAG
CTCACGATGAAATTATACCTATGAGCATCAGAAAGGGGAAGCTGAGTGTCCAGGGGAGGTGTCCACCTT
CACAGGGAAACTCTACATTGAGTTTGTCAAGGGTACTATGACAATCCCAAGGTCTGTGCACTCTACATC
ATGGCTGGGACAGTGGATGATGTACAAAGCTTCAGCCTCATCCGGGATTGGAGAAGAAAGAGGAAAG
AAGAAGAAGAAGATATGATGAAGGTCTAATCTCAAAAACAGACCAATAAGAACCAGGTCAGTCAGG
CCCCCGCACCCCAACCCTATGCCTCGGACAACAGCAGCCTCATGTTTCCATCCTGGTGGCCTTCGGA
GTCTTCATTCCAACCCTTCTGCCTCTGCCGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202607 representing NM_014730
 Red=Cloning site Green=Tags(s)

MLGAWAVEGTAVALLRLLLLLLPPAIRGPLGVAGVAGAAGLPESEVIWAVNAGGEAHVDVHGIHFRKD
 PLEGRVGRASDYGMKLPILRSNPEDQILYQTERYNEETFGYEVPIKEEGDYVLVLKFAEVYFAQSQQKVF
 DVRLNGHVVVKDLDFDRVGHSTAHDEIIPMSIRKGGKLSVQGEVSTFTGKLYIEFVKGYDNPVKCALYI
 MAGTVDDVPKLQPHPGLEKKEEEEEEEEEYDEGSNLKKQTNKNRVQSGPRTPNPYASDNSSLMFPIILVAFG
 VFIPTLFCLCRL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014730

ORF Size: 876 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.

RefSeq: [NM_014730.4](#)

RefSeq Size: 6367 bp

RefSeq ORF: 879 bp

Locus ID: 9761

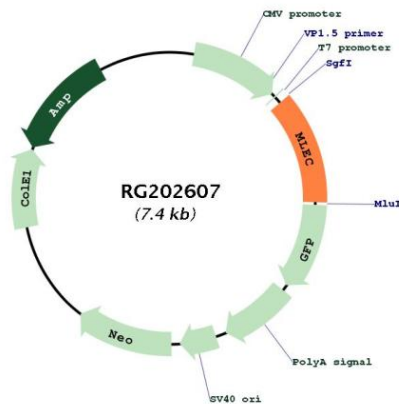
UniProt ID: [Q14165](#)

Cytogenetics: 12q24.31

Protein Families: Transmembrane

Gene Summary: This gene encodes the carbohydrate-binding protein malectin which is a Type I membrane-anchored endoplasmic reticulum protein. This protein has an affinity for Glc2Man9GlcNAc2 (G2M9) N-glycans and is involved in regulating glycosylation in the endoplasmic reticulum. This protein has also been shown to interact with ribophorin I and may be involved in the directing the degradation of misfolded proteins. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG202607