

Product datasheet for **RG214726**

MANEA (NM_024641) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | MANEA (NM_024641) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MANEA |
| Synonyms: | ENDO; hEndo |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG214726 representing NM_024641
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAAAGTTTCGGAGAAGGACTTGCATCATTGTCACATTTTGGCACTTTTTATTCTATTTATTTCTCTCTGATGA
 TGGGTTTTAAAAATGCTGAGACCAAAATACAGCTACTTTTGGAGCTCCTTTTGGACTTGACCTTCTCCAGA
 ACTTCATCAACGAACTATTCATTTGGGGAAAAATTTGATTTCCAAAAGAGTGACAGAATCAACAGTGAA
 ACAAATACCAAGAATTTAAAAAGTGTGAAATCACTATGAAACCTTCCAAAGCCTCTGAACCTAACTTGG
 ATGAACTACCACCTCTGAACAATTATCTACATGTATTTTATTACAGTTGGTATGGAAATCCACAATTTGA
 TGGTAAATATACATTGGAATCATCCAGTGTTAGAGCATTGGGACCCTAGAATAGCCAAGAATTATCCA
 CAAGGGAGACACAACCTCCAGATGACATTGGCTCCAGCTTTTATCCTGAATTGGGAAGTTACAGTTCTC
 GGGATCCTTCTGTCATAGAACTCACATGAGACAAATGCGCTCAGCTTCAATTGGTGTACTAGCCCTCTC
 TTGGTACCCACCTGATGTAATGATGAAAATGGAGAACCTACTGATAACTGGTACCCACTATTTTGGAT
 AAAGCTCATAAATAAACCTAAAGGTTACTTTTACATAGAACCATATAGCAATCGAGATGATCAAAACA
 TGTACAAAAATGTCAAGTATATTATAGCAAAATATGAAAATCATCCGGCCTTTTACAGGTACAAGACGAA
 GACTGGCAATGCTCTTCCATGTTTTATGTCTATGATTCTATATTACCAAGCCTGAAAAATGGGCAAT
 CTGTTAACCCCTCAGGGTCTCGGAGTATTCGCAATTCCTTATGATGGACTGTTTATTGCCCTTCTGG
 TAGAAGAAAAACATAAGTATGATATTCTCAAAGTGGTTTTGATGGAATTTACACATATTTTGCCACAAA
 TGGCTTTACTTATGGCTCATCACATCAGAATTGGGCTAGCCTAAAATTATTTGTGATAAATACTA
 ATATTTATCCCAAGTGTGGGCCAGGATACATAGATACCAGCATCCGTCATGGAACACGCAAAACACTC
 GGAACCGAATCAATGGGAAGTATTGAAATTTGGTCTGAGTGCCGCACTCAGACACGCCCCAGCTTAAT
 TTCTATCACCTCTTTTAATGAGTGGCATGAAGGAACCTCAGATTGAAAAGCTGTTCCAAAAGAACCAGT
 AATACAGTGTACCTAGATTACCGTCTCATAAACCCAGGCTTTACCTAGAACTGACTCGCAAGTGGTCTG
 AAAAAACAGTAAGGAAAGACAACTTATGCATTAGATCGCCAGTGCCTGTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214726 representing NM_024641
 Red=Cloning site Green=Tags(s)

MAKFRRTCIILALFILFIFSLMMGLKMLRPNTATFGAPFGLDLLPELHQRTIHLGKNFDFQKSDRINSE
 TNTKNLKSVEITMKPSKASELNLDLPLNNYLHVFFYYSWYGNPQFDGKYIHWNHVPVLEHWPRIAKNYP
 QGRHNPPDDIGSSFYPELGSYSSRDPVSIETHMRQMSASIGVLALSWYPPDVNDENGEPDNLVPTILD
 KAHKYNLKVTFHIEPYSNRDDQNMVKYKIIDKYGHNPAFYRYKTKTGNALPMFVYVDSYITKPEKWAN
 LLTTSGRSIRNSPYDGLFIALLVEEKHYDILQSGFDGIYTYFATNGFTYGSSHQNWASLKLFCDKYNL
 IFIPSVGPGYIDTSIRPWNTQNRNRINGKYIEIGLSAALQTRPSLISITSFNEWHEGTQIEKAVPKRTS
 NTVYLDYRPHKPLYLELTRKWEKYSKERATYALDRQLPVS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_024641

ORF Size: 1386 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_024641.4](#)

RefSeq Size: 4593 bp

RefSeq ORF: 1389 bp

Locus ID: 79694

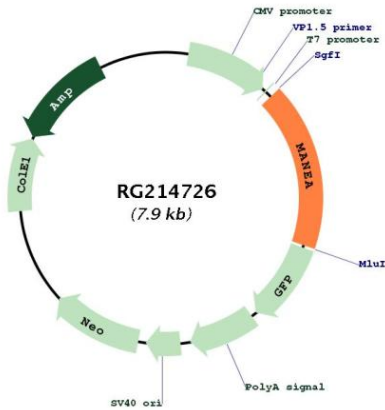
UniProt ID: [Q5SRI9](#)

Cytogenetics: 6q16.1

Protein Families: Transmembrane

Gene Summary: N-glycosylation of proteins is initiated in the endoplasmic reticulum (ER) by the transfer of the preassembled oligosaccharide glucose-3-mannose-9-N-acetylglucosamine-2 from dolichyl pyrophosphate to acceptor sites on the target protein by an oligosaccharyltransferase complex. This core oligosaccharide is sequentially processed by several ER glycosidases and by an endomannosidase (E.C. 3.2.1.130), such as MANEA, in the Golgi. MANEA catalyzes the release of mono-, di-, and triglucosylmannose oligosaccharides by cleaving the alpha-1,2-mannosidic bond that links them to high-mannose glycans (Hamilton et al., 2005 [PubMed 15677381]).[supplied by OMIM, Sep 2008]

Product images:



Circular map for RG214726