

Product datasheet for **MG225023**

Glmn (NM_001161739) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glmn (NM_001161739) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glmn
Synonyms:	9330160J16Rik; AW227515; Fap48; Fap68
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225023 representing NM_001161739
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTGGAGAACTTCAGAGCATAATAAAAAGATGTCAAATCCTAGAAGAGCATGATTTTAAAGAAG
 AAGATTTTGGCCTCTTTCAGTTAGCAGGTCAAAGATGCATTGAAGATGGTTATATAAACCAGCTGCTAGA
 GATTATCAAGATGAAAAGAACAAGACCATCATTAAGTCTATGGGGTGGAACTCTGTTGGTCCAGTTGTT
 CGATGCCTCCTGAGGGGCAGAGAAGAGGATAAAAAGAGAAGAGTGTCTTCTGATATTTGATTTGCTGGTGA
 AGTTATGTAATCCAAAGGAATTGTTGTTGGGTTTCTTGAACCTATTGAAGAGCCCTCCGAAAAACAGAT
 TTCCAAATTATTCTTCTTTACTGCAACCATTACAAACAGTTATTGAGAACTTCTAACAACAAGGCA
 TACTCCGTTGGACTAGCATTGTCAACACTTTGGAGTCAGCTGTCTTCTTCTGTTCCACTCAGAAG
 AACAAATTCAGGCAGATGATTATGGCCTCTGTCAGTGTGTAAGGCCTTGATAGAGTTCACGAAACCTTT
 TGTGGAAGAAGTAATAAGTGATAAAGAAAAACAAGAAAAATGCAAACTAAAAGATGAATTACTGAAATTT
 TGTTTTCAAAGGCTTGAAATGCCCTTTGCTGACAGCACAATTCCTCGAACAGTCAGAAGACGTTGGAATG
 ACCTTTTTCGGTGTTTTGCATCTGAAATAATAGGATTTTATCAAAAATTTGGACACCCTGTCCCAAAAT
 TATTCTTAATCATGGAAGGAAAAAAGGACTTTGGGATTACCTTGAATTTGAAAGAAGAAGACAAACAA
 CTGGCAGAGTCTGTGGCTTCTCTGACATATCTAGTATTTGTTCCAGGGCATCGGTATTGATCAGCTGCCCA
 TGGTCTTAAGCCCATCGTACCTTCTGCAGTTGAACATGGAGCATATTGAAGTGTCTTGCAAAGAACAGA
 ACAGTCTATTTACTCCAAAGGATTGGAACCTCTGGAGACTAGCTTATTGAGATTAGAAGACAACAGCCTA
 TGTTATCAGTACTTAGAAATCAAGAGTTTCTTGTCTGTGCCTCAGGGCTTAGTCAAAGTTATGACTTT
 GCCCTATTGAGACATTGAGGAAAAAAGGTTTATCTATGCTTCAGCTGTTTATTGACAAGTTGGATTACA
 AGGCAAAATACATTATTTAGGATTATGGCTTCATTAATTTATTGAGGATTTTGGTTATCAAAGATAAT
 GAAGATGACAATCAAAGTGGATTATGGACAGAAGTGGAAAAATGAAAAAATTTCTAAAGCCACTTC
 ATATAGGACTTAATATGTCAAAGCACATTATGAAGCAGAAATTAACAAACAGCCAACAAAATAACCAAGT
 AGCCTCAATGTGTAAGGTGTTTGTCCGTGACTGTAGGTGGAGAAGAAATCCCTTCTATGCCTCCTGAA
 ATGCAGCTTAAGGTCTTACATCCGCTCTCTTACATTTGACTTGATTGAAAGTGTCTGGCTCGAGTAG
 AAGAACTATTGAAATCAAATCAAAGTCTACCTCTGAAGAAAATGTTGGGATAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225023 representing NM_001161739
 Red=Cloning site Green=Tags(s)

MAVEELQSIKRCQILEEHDFKEEDFGLFQLAGQRCIEDGYINQLEIIQDEKNKTIKSMGWNLVGPVV
 RCLLRGREEDKREECFLIFDLLVKLCNPKELLLGELLEIEEPSGKQISQIILLQLPLQTVIQKLPNNKA
 YSVGLALSTLWSQLSLLPVPHSEEQIQADDDYGLCQCCKALIEFTKPFVEEVIKSDKENKENAKLKDELLKF
 CFKGLKCPDLLTAQFLEQSEDVGNDFRCFASEIIGFLSKIGHVPVQIILNHGRKKRTWDYLEFEFEEDKQ
 LAESVASLTYLVFVQIGIGIDQLPMVLSPSYLLQLNMEHIEVFLQRTEQSIYSKLELLETSLRLEDNSL
 CYQYLEIKSFLAVPQGLVKVMTLCPIETLRKKGLSMLQLFIDKLDSDQKYLFRIMASLNLRLYLVIKDN
 EDDNQTLWTELKGIENNFLKPLHIGLNMSKAHYEAEIKNSQQNNQVASMCKGVCVSVTVGGEEIPSPMPE
 MQLKVLHSALFTFDLIESVLRVEELIEIKSKSTSEENVGIK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001161739

ORF Size: 1596 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_001161739.1](#), [NP_001155211.1](#)

RefSeq Size: 1823 bp

RefSeq ORF: 1599 bp

Locus ID: 170823

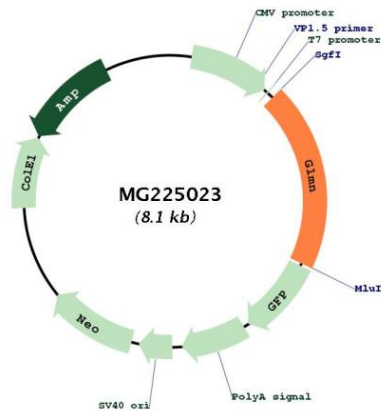
UniProt ID: [Q8BZM1](#)

Cytogenetics: 5 E5

Gene Summary:

Regulatory component of cullin-RING-based SCF (SKP1-Cullin-F-box protein) E3 ubiquitin-protein ligase complexes. Inhibits E3 ubiquitin ligase activity by binding to the RING domain of RBX1 and inhibiting its interaction with the E2 ubiquitin-conjugating enzyme CDC34. Inhibits RBX1-mediated neddylation of CUL1 (By similarity). Required for normal stability and normal cellular levels of key components of SCF ubiquitin ligase complexes, including FBXW7, RBX1, CUL1, CUL2, CUL3, CUL4A, and thereby contributes to the regulation of CCNE1 and MYC levels (PubMed:22405651). Essential for normal development of the vasculature (PubMed:22405651). Contributes to the regulation of RPS6KB1 phosphorylation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225023