

Product datasheet for **MG222002**

2810403A07Rik (NM_028814) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | 2810403A07Rik (NM_028814) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | 2810403A07Rik |
| Synonyms: | A430106P18Rik; AI256352; AI451678; Blom7; Kiaa0907 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG222002 representing NM_028814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCCGACGGGAGCGGACACATCCTGCCGCTGGCGGGCGCCGAGCAAATGGGATCAGCCAGCGCCAG
 CTCGCTTCTCTTCTGCGCCAAACGGCCCCAGGTGGAGAAGTCGCTGGCAGCGGGCGAGCCCCGGGGG
 CGCCACCACCGCGCTCCTTCAGGAGCCTTGGATGCCGCCGCTGCCGTGGCTGCCAAGATCAATGCTATG
 CTCATGGCCAAAGGAAGCTGAAACCATCTCAGAATGCGGCCGAGAAGCTTCAGGCCCTGGCAAAAGCC
 TAACTAGCAATAAAAGCAAAGATGACCTGGTGGTGGCTGAAGTAGAAATCAATGACGTGCCTCTGACATG
 CAGAAACCTGCTGACACGAGGACAGACACAAGATGAGATCAGTCGGCTTAGTGGGGCTGCTGTGCAACT
 CGGGGACGGTTTCATGACGACTGAGGAGAAGGCCAAAGTGGGACCTGGAGACCGTCCATTGTATCTTCATG
 TTCAGGGACAGACACGGGAATTAGTAGACAGAGCTGTAACCGAATCAAAGAAATATCACCAATGGAGT
 GGTGAAGGCTGCCACAGGACAAGTCCAACCTTCAATGGTGCAACAGTCACTGTCTATCACAGCCAGCT
 CCCATTGCTCAGTTATCACCTGCTATTAACCGAAGCCTTCCTTCCAGTCCGGAATGCATTATGTTCAAG
 ATAAACTATTTGTGGTCTAGAACATGCCGTGCCCACTTTAATGTTAAAGAGAAAGTAGAAGGTCCAGG
 CTGCTCTATTTGCAACACATTCAAATTGAAACTGGTGCCAAAGTCTTTCTACGAGGGAAAGGCTCAGGC
 TGCATTGAGCCAGCGTCAGGCCGAGAGGCTTTTGAACCATGTATATTTATATCAGTCATCCCAAACCTG
 AAGGCTGGCTGCTGCCAAGAAGCTCTGCGAGAATCTCTTACAAACAGTTCATGCTGAGTATTCTAGATT
 TGTGAATCAAATTAATACTGCTGTACCATTACCAGGCTATACACAACCTCTGCTATAAGTAGTATCCCT
 CCTCAACCACCATATTATCCATCCAATGGCTATCAGTCTGGTTACCCTGTTGTTCCCCCTCTCAGCAGC
 CAGTTACGCTCCCTACGGAGTACCAAGCATAGTCCACCAGCTGTTTCATTGGCACCTGGAGTCTTGCC
 AGCATTACCTACTGGGGTCCACCTGTGCCAACACAGTATCCGATAACACAAGTGAACCTCCAGCCAGC
 ACTGGACAGAGCCCAATAAGTGCTCCTTTTATTCTGCTGCTCCTGTCAAACCTGCCTTGCTACTGGCC
 CCCAGCCCCAGCCCCAACTCCCAGCTCAGCCACAGTCACAGAAGAGGCGATTACAGAGGAGCTGCCTGA
 TGAACGGGACTCTGGACTGCTTGGATACCAGCATGGACCCATTATGACTAATTTAGGTACAGGCTTC
 TCCAGTCAGAATGAGATAGAAGGCGCAGGATCGAAGCCGGCAAGTTCCTCAGGCAAAGAGCGAGAGAGGG
 ACAGGCAGTTGATGCCTCCACCAGCCTTCCAGTACTGGAATAAAAAGTACTGCTGATGAAAGGAATGG
 GTCTGGGGCCTTAGCCGGAAGCCATGATTATCCAGCCAAGAAGATGAAAACGGCAGAGAAGGGATTTGGC
 TTAGTAGCTTACGCTGCAGACTCCTCTGATGAAGAGGAAGAACATGGAGGTCATAAAAATGCAAGTAGCT
 TTCCACAGGGCTGGAGTTTGGGCTATCAGTATCCTTCATCACAGCCACGAGCTAAGCAGCAGATGCCATT
 TTGGATGGCCCCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222002 representing NM_028814
 Red=Cloning site Green=Tags(s)

MSAGSATHPAAGRRSKWDQPAPAPLLFLPPTAPGGEVAGSGASPGGATTAAPSGALDAAAAVAAKINAM
 LMAKGLKPSQNAAEKQLQAPGKSLTSNKSKDDL VVAEVEINDVPLTCRNL TRGQTQDEISRLSGAAVST
 RGRFMTTEEKAKVGPDRPLYLHVQGTRELVDRAVNRKEIITNGVVKAATGTSPTFNGATVTVYHQPA
 PIAQLSPAINQKPSFQSGMHYVQDKLFVGLEHAVPTFNVKEKVEGPGCSYLQHIQIETGAKVFLRGKSG
 CIEPASGREAFEPMYIYISHPKPEGLAAAKKLCENLLQTVHAEYSRFVNQINTAVPLPGYTQPSAIISSIP
 PQPPYPSNGYQSGYPVPPPPQPVQPPYGVPSIVPPAVSLAPGVLPALPTGVPPVPTQYPITQVQPPAS
 TQQSPISAPFIPAAPVKTALPTGPQPQLPAQPQSQRKRFTEELPDERDSGLLGYQHGP IHMTNLGTGF
 SSQNEIEGAGSKPASSGKERERDRQLMPPPAFPVTGIKTESDERNGSGALAGSHDYPAAKMKTAEKGF
 LVAYAADSSDEEEHGGHKNASSFPQGWLSLGYQYPSQPRAKQQMPFWMAP

TRTRPLE – GFP Tag – V

Restriction Sites:

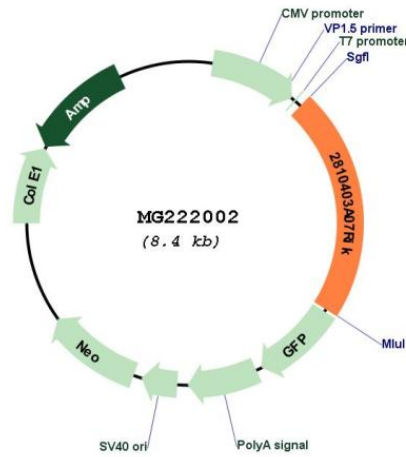
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_028814
 ORF Size: 1836 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_028814.3 , NP_083090.2 |
| RefSeq Size: | 2999 bp |
| RefSeq ORF: | 1839 bp |
| Locus ID: | 74200 |
| UniProt ID: | Q3TCX3 |
| Cytogenetics: | 3 F1 |
| Gene Summary: | RNA-binding protein involved in pre-mRNA splicing. Interacts with the PRP19C/Prp19 complex/NTC/Nineteen complex which is part of the spliceosome. Involved in regulating splice site selection. Binds preferentially RNA with A/C rich sequences and poly-C stretches. [UniProtKB/Swiss-Prot Function] |