

Product datasheet for **MG214682**

2300002M23Rik (NM_175148) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	2300002M23Rik
Synonyms:	emprin; Stg
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214682 representing NM_175148
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGAGCCACGCAGGTGGGAGCCGGGCTCCCCTGGGCTTGCTCCTGATCTGTCTGTGCCTGCCAGGTC
TTTTTGACCGGAGCACTGGGGCACCAGAGGAGAAAGCCTCCCACATTCGGGACAACCTTCCTTACCAG
CCTCCTTAACCTGGGCAGCCTCAGCCCAAGCCAGACCCTGTGAATAATGAGTTACTAGGAGTTCTTCCC
AGGCTCAGCGAATCTCCACAAGATGGTGCTCTACCTGAGGGCGGCTCTGAGGTGCCAATGGGCCTCCCT
TCTGGGGGCCGCCCCCATGGAGTCCTGGCCCTCAGAGGACCCTCAGCAAGGGATGGCTGCTGTTGCTGA
GGACCAGTTAGAGCAAATGCTGCCAGAAGCCCTGCCATACCTTCCAGAGGCGGTCTGCTGCCTGAGGCT
TCCTCTGCATGGCTCAGGCAACCTTACCAGCGGCTTCTACCTCAGGACTCCGAGGCTGGACTGCAGC
CTGGTTCCAGTTCACTGAAAAGTGGGAGGAGGAGGCTTCTGCTCGGAGCCATTCTGGTTTCTCATCCAAA
GCTTCTGCCTGGCTCATCTGGGAGGATCCTAAGGCCTGGAACATCCTGGGGAAGTGGAGGGGCTGGAAC
GGGTGGGGAACAAGACCATGCCATATCCTTCTGGAATATGGGGTAGCAATGGTTTAGTATCAGGTA
GTTTGGGGGTAGGGGTCCTTACCCAGTAAGAATCTGGGGGAGAAATGGTTGGTACCCATTAAGGATCTT
GGGGGTAATGGTCGGTACCCCCAGTAGGGACCTGGGGGGTTATGGTCAGTACCCCCAGTAGGGCC
TGGGGCGGTTATGGTCAGTACCCCCAGTAGGGCCCTGGGGCGGTTATGGTCAGTACCCCCAGTAGGGA
CCTGGGGGCCAATTGCCAGTATCCAGCAGGCAGCCGAGGCCAATTGTCGATATCCAGCAGGTAGCTG
GGGAATAAAGGTCAGAATCGGCTTCCCCAGGAGCCAACGTCCTGGCTTCTGGGATCACCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214682 representing NM_175148
 Red=Cloning site Green=Tags(s)

MQSHAGGSRAPLGLLLIICLCLPGLFARSTGAPEEKASPHSGQPSFTSLLNPGQPQPKPDPVNNELLGVLPL
 RLSESPQDQALPEGGSEVPNGPPFWGPPPMESWPSEDQQQGMAAVALDQLEQMLPEALPYLSRGGRLPEA
 SSAWLRQPSPAASYPDSEAGLQPGSSSLETEAEAFARSPFWFLIHKLLPGSSGRILRPGTSWGS GGAGT
 GWGTRPMPYPYSGIWSNGLVSGTSLGGRGYPVRIWGRNGWYPLRILGGNGRYPPVGTWGGYGQYPPVGP
 WGGYGQYPPVGPWGGYGQYPPVGTWGANCCYYPAGSRRPNCRYPAGSWGTKGQNRLLPPGAKRPGSSGITP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_175148

ORF Size: 1047 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_175148.3](#), [NP_780357.1](#)

RefSeq Size: 1248 bp

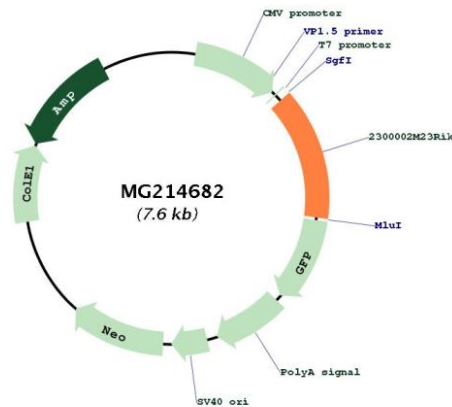
RefSeq ORF: 1050 bp

Locus ID: 69542

UniProt ID: [Q8BMI5](#)

Cytogenetics: 17 B1

Product images:



Circular map for MG214682