

Product datasheet for **MG212769**

Fam160b2 (NM_194345) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam160b2 (NM_194345) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam160b2
Synonyms:	G430067P06Rik; Rai16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG212769 representing NM_194345
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGCCGGCTCGGGCACTGCTGCAGGAGCCGTGGGGCGCGGGAGCCAGCATTGACCTGCTGC
 AGGCCTTCGTGGAACATTGGAAAAGGCATCACACACTACTATATCGAGAGCACAGATGAAAACACCCAGC
 CAAGAAAACAGATATCCCTGGCGACTGAAGCAGATGTTGGACATCCTGGTGTATGAGGAGAAGCAGCAG
 GCATCCTCTGGTGAAGCTGGACCCTGTCTGGAATACTTGTCTACAACAAGATCCTGGAGACCCTGTGCA
 CTCTGGGCAAAGCGGAGTACCCCCAGGCATGCGACAACAGGTGTTCCAGTTCTTCAGCAAGGTCTGAG
 CCAGGTGCAGCACCCACTGCTGCACTACCTGAGTGTGCACAGGCCTGTGCAGAACTTCTCCGACTTGA
 GGGACAGTCCCTGGATCCCTCACAGAAAAGGAAGAAGTTCAGTTCACCAGTGTCTCTGCTAAGATAC
 AGCAGGATCCAGAGCTGTGGCCTATATTCTAGAGGGTAAAAAATTATAGGTAAGAAGAAAACAGCCAG
 AGAGTCTACAGCTCCGCCTAAAGACATAGCTGGCTACAGGGACAAGGACTGTCCCCACAGTGATGCTCTC
 AACAGGGATCCTGGACTGGATAAGGAGCACTGTGGTGTCCAGCACTGAGCATCCACCTGCCCGCTGAGA
 CTGAGGGGCCAGAAAACGGGCTGGGGAGAGCAATCTTATCACCTCCCTGCTGGGACTGTGCAAGAGCAA
 GAAGAGTCGGCTGGCCCTGAAGGCACAGGAGAACAATACTGCTGTGGTAAGCGTGGCCCTACCAGCAGCT
 GCCACCTACCTGACACAGAGTACCTCCTGCTGTATGGCGATAGCTGAGCACCTCTGCCAAGTGTACCGGT
 CCATGCCAGCCTGCCTTGACCCAGCAGACATTGCCACTTAGAGGGCATCAGCTGGAGGTTACCCAGTGC
 CCCATCTGATGAGACCGCTTCCCTGGCAAGGAGGCTCTGGTGCCTTCTGGGCTGGTTGATTACTGT
 GACCACCTCATCACAGAGGCACACACGGTGGTTGCAGATGCCTTGGCAAAGGCTGTGGCTGAGAAGCTGT
 TTGTAGAGACCCTGCAGCCCCAGCTCCTGCATGTATCTGAGCAGAGCATCCTGACCTCCACTGCCCTGCT
 GACAGCCTTGTGCGTCACTGCGCTCCCTGCCTGCACTGCTGCAGGAGGCCATGACCTTCTCTTAGGCACT
 GACCAGCATCCTGCAGCCATAGAGGACAGCCCCATACTCTGGGTACACACCTCATCATGCACTGTGACC
 ATCTCTCAGACGAGATCAGCATTGCCACGCTGAGGCTATTTGAGGAGCTGCTGCAGAAGCCCATGAGCA
 GGCCATCCGCAGTCTGGTCTGCAGAACCTCGAGGGCCGCCTGTACGTGGCCCGGGGCTCGCCGGAGCCG
 GAGAGCTATGAGGATACCTAGATCTGGAGGAAGACCCCTACTTCACCGATGGCTTCTCGATTCTGGCC
 TTCAGCCCTCCACAAAGCCTCCCCAGCTCCCGCCACCAGTTCGGATGGCAAACAGCAGTGACGGAGAT
 TGTTAACAGCTTCTTTGCCTGGTCCCTGAGGAAGCCAAGACATCAGCCTTCTGGAGGAGAATGGATAT
 GACACATACGTGCACGATGCCTACGGCTTGTCCAGGAGTGCAGCTCCCGTGTGGCCACTGGGGTTGGC
 CCTAGGCCAGCGCCCTTGGACTCTCATGAGCCTGAAAGGCCTTCTTTGAGGGTGCCTTCTCCAAGT
 GCTCTTTGATCGAATCGCCCGGATTTTGGATCAGCCGTACAGCCTGAACCTACAAGTGACCTCAGCTTG
 TCCCGGCTCGCCTTGTTCACCCACCCCATATCCATGAGTACCTCCTGGATCCCTACATCAGCCTGGCC
 CTGGCTGCAGGAGCCTGTCTCTGTGCTTGTGAGGGTGTACGGTACTTAATGCAAAGAATTGAGAGGT
 ACCCCAGTTTTCGGGCAAAGTCTCCTGGTACGCAAGCAACTGATGGCCAGGTTCCCGGAGAGCATCTG
 GACCATCAGACCCTACTCCAGGGTGTGGTAGTACTTGAGGAATTCTGCAAGGAGCTGGCTGCCATTGCGT
 TTGTCAAGTTTCCCCACAGGCTCCTTACCTGAACTTCTCTCCACCTCCAGAAGGGCAAGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG212769 representing NM_194345
 Red=Cloning site Green=Tags(s)

MLSRLGALLQEAVGAREPSIDLQAFVEHWKGITHYYIESTDENTPAKKTIPWRLKQMLDILVYEEKQQ
 ASSGEAGPCLEYLLQHKILETLCTLGKAEYPPGMRQQVQFFSKVLSQVQHPLLHYLSVHRPVQKLLRLG
 GTVPGSLTEKEEVQFTSVLCSKIQQDPELLAYILEGKKIIGKKTARESTAPPKDIAGYRDKDCPHSDAL
 NRDPGLDKEHCVPALSIHLPAETEGPENGPGESNLITSLGLCKSKSRLALKAQENILLVSVASPAA
 ATYLTQSTSCMAIAEHLQLYRSMACLPADIATLEGISWRLPSAPSDETAFFGKEALAAFLGWFDYC
 DHLITEAHTVVADALAKVAEKLFVETLQPQLLHVSEQSILTSTALLTALLRQLRSPALLQEAMTFLGT
 DQHPAAIEDSPHTLGHLMHCDHLSDEISIALTLRLEELLQKPHEQAIRSLVLQNLQLEGRLYVARGSPEP
 ESYEDTLDEEDPYFTDGFLDGSLQPSTKPPAPATSSDGKTAVTEIVNSFLCLVPEEAKTSAFLEENGY
 DTYVHDAYGLFQECSSRAHWGWPLGPAPLDSHEPERPFFEGFRFLQVLFDRIRILDQPYSLNLQVTSVL
 SRLALFPHPHIHEYLLDPYISLAPGCRSLFVLRVIGDLMQRIQRVPQFSGKLLLVRKQLMGQVPGEHL
 DHQTLQGVVLEEFCKELAAIAFVKFPPHGPYLNFSPPPEGQV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_194345

ORF Size: 2232 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_194345.1](#), [NP_919326.1](#)

RefSeq Size: 4051 bp

RefSeq ORF: 2235 bp

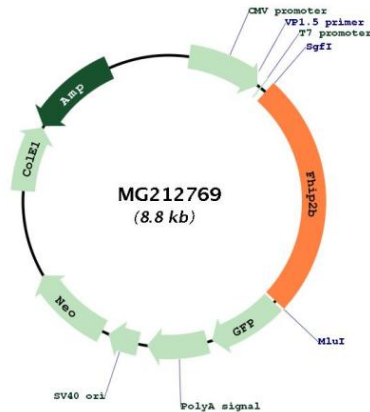
Locus ID: 239170

UniProt ID: [Q80YR2](#)

Cytogenetics: 14 D2

Gene Summary: Able to activate MAPK/ERK and TGFB signaling pathways (By similarity). May regulate the activity of genes involved in intestinal barrier function and immunoprotective inflammation (PubMed:31862898). May play a role in cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212769