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Product datasheet for MR212769

Fam160b2 (NM_194345) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam160b2 (NM_194345) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam160b2
Synonyms:	G430067P06Rik; Rai16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR212769 representing NM_194345
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGAGCCGGCTCGGGGCACTGCTGCAGGAGGCCGTGGGGGCGCGGGAGCCCAGCATTGACCTGCTGC
AGGCCTTCGTGGAACATTGGAAAGGCATCACACACTACTATATCGAGAGCACAGATGAAAACACCCCAGC
CAAGAAAACAGATATCCCCTGGCGACTGAAGCAGATGTTGGACATCCTGGTGTATGAGGAGAAGCAGCAG
GCATCCTCTGGTGAGGCTGGACCCTGTCTGGAATACTTGCTACAACACAAGATCCTGGAGACCCTGTGCA
CTCTGGGCAAAGCGGAGTACCCCCCAGGCATGCGACAACAGGTGTTCCAGTTCTTCAGCAAGGTCCTGAG
CCAGGTGCAGCACCCACTGCTGCACTACCTGAGTGTGCACAGGCCTGTGCAGAAACTTCTCCGACTTGGA
GGGACAGTCCCTGGATCCCTCACAGAAAAGGAAGAAGTTCAGTTCACCAGTGTCCTCTGCTCTAAGATAC
AGCAGGATCCAGAGCTGCTGGCCTATATTCTAGAGGGTAAAAAAATTATAGGTAAGAAGAAAACAGCCAG
AGAGTCTACAGCTCCGCCTAAAGACATAGCTGGCTACAGGGACAAGGACTGTCCCCACAGTGATGCTCTC
AACAGGGATCCTGGACTGGATAAGGAGCACTGTGGTGTCCCAGCACTGAGCATCCACCTGCCCGCTGAGA
CTGAGGGGCCAGAAAACGGGCCTGGGGAGAGCAATCTTATCACCTCCCTGCTGGGACTGTGCAAGAGCAA
GAAGAGTCGGCTGGCCCTGAAGGCACAGGAGAACATACTGCTGCTGGTAAGCGTGGCCTCACCAGCAGCT
GCCACCTACCTGACACAGAGTACCTCCTGCTGTATGGCGATAGCTGAGCACCTCTGCCAACTGTACCGGT
CCATGCCAGCCTGCCTTGACCCAGCAGACATTGCCACTTTAGAGGGCATCAGCTGGAGGTTACCCAGTGC
CCCATCTGATGAGACCGCTTTCCCTGGCAAGGAGGCTCTGGCTGCCTTCCTGGGCTGGTTTGATTACTGT
GACCACCTCATCACAGAGGCACACACGGTGGTTGCAGATGCCTTGGCAAAGGCTGTGGCTGAGAAGCTGT
TTGTAGAGACCCTGCAGCCCCAGCTCCTGCATGTATCTGAGCAGAGCATCCTGACCTCCACTGCCCTGCT
GACAGCCTTGCTGCGTCAGCTGCGCTCCCCTGCACTGCTGCAGGAGGCCATGACCTTCCTCTTAGGCACT
GACCAGCATCCTGCAGCCATAGAGGACAGCCCCCATACTCTGGGTACACACCTCATCATGCACTGTGACC
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GGCCATCCGCAGTCTGGTCCTGCAGAACCTCGAGGGCCGCCTGTACGTGGCCCGGGGCTCGCCGGAGCCG
GAGAGCTATGAGGATACCCTAGATCTGGAGGAAGACCCCTACTTCACCGATGGCTTCCTCGATTCTGGCC
TTCAGCCCTCCACAAAGCCTCCCCCAGCTCCCGCCACCAGTTCGGATGGCAAAACAGCAGTGACGGAGAT
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GACACATACGTGCACGATGCCTACGGCTTGTTCCAGGAGTGCAGCTCCCGTGTGGCCCACTGGGGTTGGC
CCCTAGGCCCAGCGCCCTTGGACTCTCATGAGCCTGAAAGGCCTTTCTTTGAGGGTCGCTTCCTCCAAGT
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TCCCGGCTCGCCTTGTTCCCCCACCCCCATATCCATGAGTACCTCCTGGATCCCTACATCAGCCTGGCCC
CTGGCTGCAGGAGCCTGTTCTCTGTGCTTGTCAGGGTGATCGGTGACTTAATGCAAAGAATTCAGAGGGT
ACCCCAGTTTTCGGGCAAACTGCTCCTGGTACGCAAGCAACTGATGGGCCAGGTTCCCGGAGAGCATCTG
GACCATCAGACCCTACTCCAGGGTGTGGTAGTACTTGAGGAATTCTGCAAGGAGCTGGCTGCCATTGCGT
TTGTCAAGTTTCCCCCACACGGTCCTTACCTGAACTTCTCTCCACCTCCAGAAGGGCAAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR212769 representing NM_194345
Red=Cloning site Green=Tags(s)

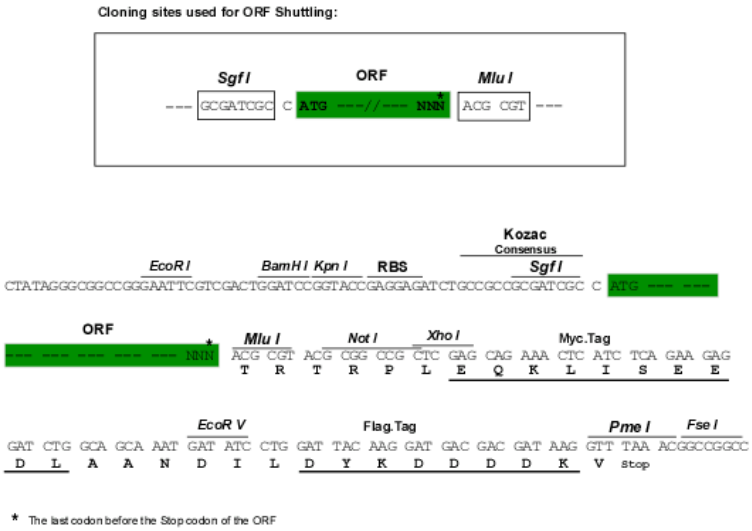
MLSRLGALLQEAVGAREPSIDLLQAFVEHWKGITHYYIESTDENTPAKKTDIPWRLKQMLDILVYEEKQQ
ASSGEAGPCLEYLLQHKILETLCTLGKAEYPPGMRQQVFQFFSKVLSQVQHPLLHYLSVHRPVQKLLRLG
GTVPGSLTEKEEVQFTSVLCSKIQQDPELLAYILEGKKIIGKKKTARESTAPPKDIAGYRDKDCPHSDAL
NRDPGLDKEHCGVPALSIHLPAETEGPENGPGESNLITSLLGLCKSKKSRLALKAQENILLLVSVASPAA
ATYLTQSTSCCMAIAEHLCQLYRSMPACLDPADIATLEGISWRLPSAPSDETAFPGKEALAAFLGWFDYC
DHLITEAHTVVADALAKAVAEKLFVETLQPQLLHVSEQSILTSTALLTALLRQLRSPALLQEAMTFLLGT
DQHPAAIEDSPHTLGTHLIMHCDHLSDEISIATLRLFEELLQKPHEQAIRSLVLQNLEGRLYVARGSPEP
ESYEDTLDLEEDPYFTDGFLDSGLQPSTKPPPAPATSSDGKTAVTEIVNSFLCLVPEEAKTSAFLEENGY
DTYVHDAYGLFQECSSRVAHWGWPLGPAPLDSHEPERPFFEGRFLQVLFDRIARILDQPYSLNLQVTSVL
SRLALFPHPHIHEYLLDPYISLAPGCRSLFSVLVRVIGDLMQRIQRVPQFSGKLLLVRKQLMGQVPGEHL
DHQTLLQGVVVLEEFCKELAAIAFVKFPPHGPYLNFSPPPEGQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_194345

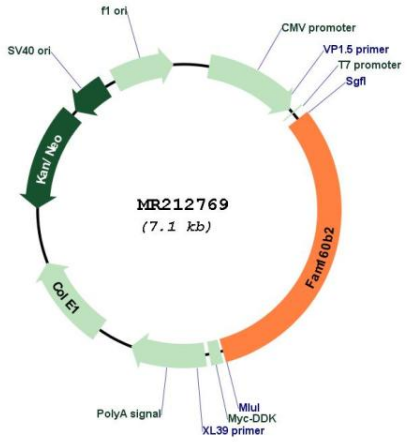
ORF Size: 2232 bp

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
MW:	82.5 kDa
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 MR212769