

Product datasheet for **MR229829**

Fam53b (NM_175268) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam53b (NM_175268) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam53b
Synonyms:	A930008G19Rik; mKIAA0140
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR229829 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATGATCCTAAGGAGAAGCCTCATCAACCAGGAGCTGACTCTGGAGCACACAGGACCTTCATCC
 CTGAAGCTGCACACGCCAAAGATGAGTCAAGGACCTACCCTCCTTTCTGTGGAATTATGGAAAATGACAG
 ATGGCGAGACCTGGATAGAAAATGCCCTCTTCAGATTGACCAGCCAAGCGCCAGCATCTGGGAATGTCTG
 CCTGAAAAGTGTGAGGATGGCTCCCTGTGGCACCAGGAGGCAGTACTGCCTGTGCGGTGACCAGCCTAA
 TCAAAGACCTCAACATAAATGACCACAATGGGAACCCCTCAGCTCCTCCAGCAAACGCCAGTGCCGGTC
 ACTATCCTTCTGATGAGATGTCCAGTTGCCGGACGTCATGGCGGCCCTTGGGGTCCAAAGTCTGGACT
 CCCGTGGAGAAGAGACGATGCTACAGCGGAGGCAGCGTCCAGCGCTACTCCAATGGCGTCAGCCCCATGC
 AGCGGAGCTCTAGCTTCAGCCTCCCTGCCAGGGCCAATGGGCTCTTTCACCTTGCCACCAGTCGAGCCT
 GCACCACCGCTTTGGGGGCAACCTGCCAAGGAGCACCAGGCTCAGCCCCTGTGGACAGCGGGTGAT
 AGCTGGAGCCCAGACCCACCCAGTGGGAGGGGGCCGGCTGGACCTGCAGCGGTCCCTCTTGTCTCGC
 ATGAGCAGTTTTCTTCCAGAATACTGTCCCCCTCAGCCAACAGCACACCTGCCTCAACGCCAGAGCT
 GGCAAGACGCTCCAGTGGGCTTGCCCGCAGCCGCTCTCAGCCCTGTGCTTAATGACAAGAAGATCGGT
 GTGAAACGGCGCGCTCCGGATGAAGTGCAGGAGCAAAGACCTTCTTAGACCTTGCCAAGATGGCACAGA
 ACTGTCAGACCTTCAGCAGCCTCAGTTGCCTGAACATGGGGTGGACGACCACAGCTCCCAGAGCCCCTT
 TGCCCTCGTCAGCAGTACCCGATCCTGGACCGCATTGCTCTCAGCCTCCAGCCCAGGGGGCAGGACTCCT
 GCTGGGACCCAGTTCCTGAGCCTGTCCCCACTCCTTTGATGACCAGTTCACCTGCCAGGAGGACCTAT
 CCTGTGACGAGTCAGATGGCTGCAGTCTAGATGAGGATTGCTGCAGGAAGGGGGATCCGGCCACATCCTG
 CGGGGACCGGGGAGCCTGCACGAACAGCCTCTGCTCTTTGGATGGCGAGCTGGACATTGACGAGATAGAG
 AACAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229829 protein sequence
 Red=Cloning site Green=Tags(s)

MVMILRRSLINQADSGAHRTFIPELHTPKMSQGPTLLSCGIMENDRWRDLDRKPLQIDQPSASIWECL
 PEKQDGSLSLWHQEAVTACAVTSLIKDLNINDHNGNPSAPPSKRQCRSLSFSDMSSCRTSWRPLGSKVWT
 PVEKRRCYSGSVQRYSNVSPMQRSSFSLPARANGLSSPCHQSSLHHRFGGQPCQGAPGSAPCGQAGD
 SWSPDPHPVGGRLDLQRSLSCSHEQFSFPEYCPPSANSTPASTPELARRSSGLARSRSQPCVLDNKKIG
 VKRRRPDEVQEQRPSLDLAKMAQNCQTFSSLSCLNMGVDDHSSQSPFALVSSTRSWTALLSASSPGGRT
 AGTPVPEPVPHSFDDQFTCQEDLSCDESDGCSLDEDCCRKGD PATSWRDRGACTNSLCSLDGELDIEQIE
 NN

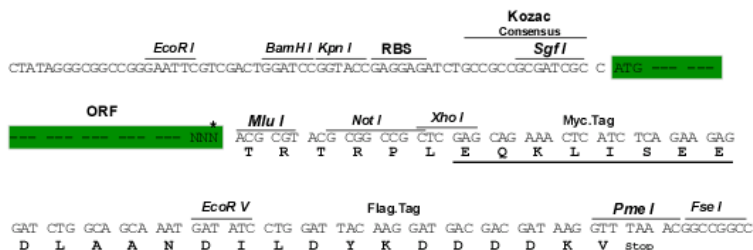
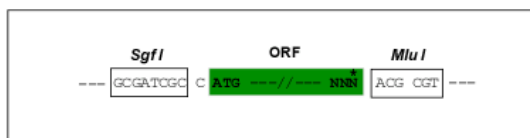
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_175268

ORF Size: 1269 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_175268.4](#), [NP_780477.2](#)

RefSeq Size: 5148 bp

RefSeq ORF: 1269 bp

Locus ID: 77938

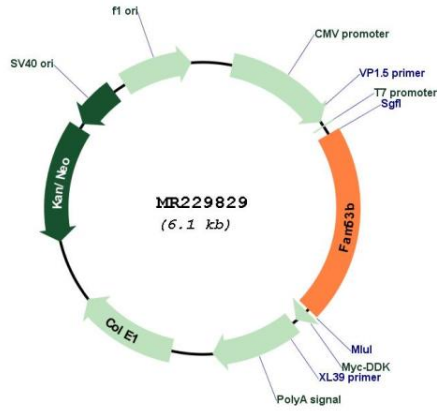
UniProt ID: [Q8BGR5](#)

Cytogenetics: 7 F3

MW: 45.9 kDa

Gene Summary: Acts as a regulator of Wnt signaling pathway by regulating beta-catenin (CTNNB1) nuclear localization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229829