

Product datasheet for **MG214510**

Fam83b (NM_001045518) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam83b (NM_001045518) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam83b
Synonyms:	C530008M07Rik; Gm516
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG214510 representing NM_001045518 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCTTCATCAATGCTTTCACTAAATGATGAGTGCCGATCTGACAACATGTGCGAGCCGCACT
ACAAGGAGTGGTATCGCGTGGCAGTTGATACTCTAATTGAACATGGGTTAGAAGCCTACCAAGAGTTTCT
CATCAAGGAGCGAGTTTCAGACTTTCTGGCAGAGGAAGAGATTAATTATATTTTGAAAAATGTCCAGAAG
ATTGCACAAAATACAGAACATGGTTCTGATAGTTCCTGTGATGACGGCTCGTCTTCAGGGACTTACTGGC
CCATGCAGTCTGATGTGGAGGCTCCAAATCTTGATCTAGGCTGGCCATACGTGATGCCCGGACTCTTAGG
GAGTACCCACATAGACCTCCTTTCCACCACCAAGGGCAGATCTGCTTACAATAAAGGAAACTATTCCGG
AAGATGATCAAAGAAGCGAGAAAGGTGGTTGCTATAGTATGGATGTGTTTACTGATGTGGATATTTTCA
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TTCTGCGGAGCTGGAGAATTGAATCGTACTTAAATGACAATTCAGAAGTCCCACCTGATTCAAATGGTT
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 AATTATAAGACTGGTCTTATCATTATACGCCCCCAATGAAAACAAGTCCGGGGATTTATGCAAAAGT
 TCGGAACTTCATACAAAAACAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG214510 representing NM_001045518
 Red=Cloning site Green=Tags(s)

MEASSMLSSLNDECRSDNYVEPHYKEWYRVAVDTLIEHGLEAYQEFLIKERVSDFLAEEIEINYILKNVQK
 IAQNTEHGSDDSSCDDGSSSGTYWPMQSDVEAPNLDLGPYVMPGLLGSTHIDLFLHPPRAHLLTIKETIR
 KMIKEARKVVAIVMDVFTDVIDFKEIVEASTRGISVYILLDESNSHFLTMTEKQGCQIQLRNIRIRTV
 KGQDYLSKTGAKFHGKMEQKFLLVDCQKVMYGSYSYMWSFEKAHLSMVQIITGHLVELFDEEFRTLYARS
 SVPSSFAQEESEVRAKPGKALWENGIYQRSISSLASVSSQRNLFGRQDQIHKLDSSYFKGRGIYPLNDQDK
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 DSLSVASSLRGGQGSQQNIPAQSFADRLAQRKTNLAERNNSVRRSFNGTDNHIRFIQQRMPLENTTKS
 FLRSWRIESYLNNDSEVPPDSNGSTLGDRFEGYENPEAVKANALYTHSRLRSSVFVKPTLPEQKEVNSCT
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 RAELNNCIYTNLCVNKQRENTENQNDNLLKRRSFPDFHDKVNLEHGNSKNYVYSTLTRNIRIQPEKPK
 EVVLKSSKSMHNVTHSAEEDDDEVIERDPPSASATKSISIAALLDVNKEEPNKEPNSKKEGKASPFLKK
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 SIHKSKEDIAVASPGISSQAEESSRIAPSPRPVERRLSERAGDASAPRFNTEQIQYRDSKEISSLMTPA
 RRPTPSPVLKPNELLRSHSTNQRVYSRFEPFCKIESSIQPASSVTNTHVNRPEVKSSTMTGAYGRSSPML
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TRTRPLE – GFP Tag – V

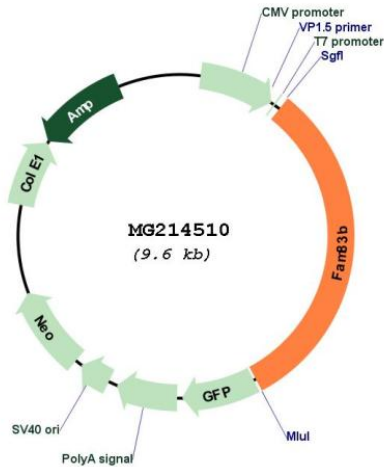
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001045518

ORF Size: 3036 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:	<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_001045518.2
RefSeq Size:	3136 bp
RefSeq ORF:	3039 bp
Locus ID:	208994
UniProt ID:	Q0VBM2
Cytogenetics:	9 D
Gene Summary:	Probable proto-oncogene that functions in the epidermal growth factor receptor/EGFR signaling pathway. May activate both the EGFR itself and downstream RAS/MAPK and PI3K/AKT/TOR signaling cascades.[UniProtKB/Swiss-Prot Function]