

Product datasheet for **RG201531**

FAM50B (NM_012135) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM50B (NM_012135) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FAM50B
Synonyms: D6S2654E; X5L
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201531 representing NM_012135
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCAGTACAAGGGCACCATGCGCGAGGCAGGCCGTGCCATGCACCTCCTCAAGAAGCGCGAAAGGC
AGCGGGAGCAGATGGAGGTGCTGAAGCAGCGCATCGCCGAGGAGACCATCCTCAAGTCGCAGGTGGACAA
GAGTTCTCGGCGCATTACGACGCCGTGGAGGCCGAGCTGAAGTCCAGCACGGTGGGCTGGTGACCCTG
AACGACATGAAGGCCCGCAGGAGGCCCTGGTCAGGGAGCGCGAGCGGCAGCTGGCCAAGCGCCAGCACC
TGGAGGAGCAGCGCTGCAGCAGGAGCGGCAGCGGGAGCAGGAGCAGCGCGCGAGCGCAAGCGTAAGAT
CTCCTGCCTGTCTTTGCACTAGACGACCTCGATGACCAGGCCGACGCGGCCGAGGCCAGGCGCGCCGGA
AACCTGGGCAAGAACCCCGACGTGGACACCAGCTTCTGCGACCGCGACCGCGAGGAGGAGGAGAACC
GGCTCCGAGAGGAGCTGCGCCAAGAGTGGGAGGCGCAGCGCGAGAAAGTGAAGGACGAGGAGATGGAGGT
CACCTTCAGCTACTGGGACGGCTCGGGCCACCGCGCACGGTGCGGGTGCGCAAGGGCAACCGGTGCAG
CAGTTCCTGAAGAAGGCGCTGCAGGGCTGCGCAAGGACTTCTGGAGCTGCGCTCCGCCGGCGTGGAGC
AGCTCATGTTTCATCAAGGAGGACCTCATCTGCCGCACTACCACCTTCTACGACTTTCATCATCGCCAG
GGCGAGGGCAAGAGCGGGCCGCTTTTCAGCTTCGATGTGCACGATGACGTGCGCCTGCTCAGCGACGCC
ACCATGGAGAAGGACGAGTCGCACGCGGGCAAGGTGGTGTGCGCAGCTGGTACGAGAAGAACAAGCACA
TCTTCCCCGCCAGCCGCTGGGAGGCCTATGACCCCGAGAAGAAGTGGGACAAGTACACCATCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201531 representing NM_012135
Red=Cloning site Green=Tags(s)

MAQYKGTMR EAGRAMHLLKKRERQREQMEVLKQRIA EETILKSQVDKRFSAHYDAVEAE LKSSTVGLVTL
 NDMKARQEALVRERERQLAKRQHLEEQRLQERQREQERREKRKISCLSFALDDLDDQADAAEARRAG
 NLGKNPDVDT SFLPDRDREEEENRLREELRQEWEAQREKVKDEEMVTF SYWDGSGHRRTVRVRKGNVTQ
 QFLKKALQGLRKDFLELRSAGVEQLMFIKEDLILPHYHTFYDFIIARARGKSGPLFSFDVHDDVRLLSDA
 TMEKDESHAGKVVLRSWYEKNKHIFPASRWEAYDPEKKWDKYTIR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012135

ORF Size: 975 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_012135.3](#)

RefSeq Size: 1618 bp

RefSeq ORF: 978 bp

Locus ID: 26240

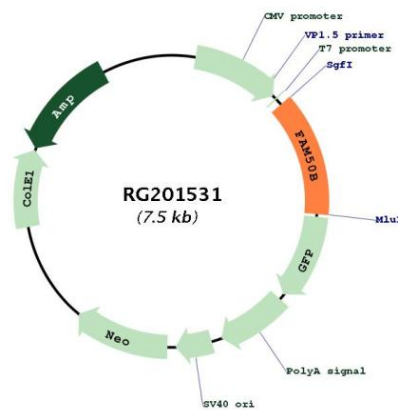
UniProt ID: [Q9Y247](#)

Cytogenetics: 6p25.2

Domains: XAP5

Gene Summary: This gene contains an intronless ORF that arose from ancestral retroposition. The encoded protein is related to a plant protein that plays a role in the circadian clock. This gene is adjacent to a differentially methylated region (DMR) and is imprinted and paternally expressed in many tissues. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG201531