

Product datasheet for **RG206266**

FAM131B (NM_001031690) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAM131B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206266 representing NM_001031690
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGACAGCACCAGCTCACTGCACGGGAGCAGCCTCCATCGGCCATCGACTGAGCAAACTCGAACTGATT
TCTCCTGGGACGGCATCAACCTCTCCATGGAGGACACCACTTCCATTCTCCGAAGCTTAAGCGAACTC
TAACGCCTATGGCATTGGGGCCCTGGCCAAGTCATCTCTCAGGGATCTCACGGAGCATGAAGGACCAT
GTGACAAAGCCACAGCCATGGGGCAAGGCCGGGTGGCCACATGATTGAGTGGCAGGGCTGGGGGAAGA
CACCAGCTGTTAGCCACAACACAGCCATGAGTCCGTGCGCAGGGATACGGATGCCTACTCCGACCTCAG
CGATGGCGAGAAGGAGGCACGTTTTCTAGCAGGCGTCATGGAGCAGTTTGCTATCTCTGAGGCCACACTC
ATGGCCTGGTCTTCCATGGATGGTGAGGACATGAGTGTGAATCCACCCAGGAGCCATTGGGCTGCAACT
ACAGTGACAACCTACCAGGAAGTATGGACAGTCAGGATGCCCTGGCTCAAGCACCCATGGATGGATGGCC
TCACTCTTACGTGTCCAGGGTATGTAAGTGTCTGGGGTCGTCAGATGCCTGGGAAGCCAGCGATCAGTCC
CTCATTGCCTCTCCGGCCACAGGATCCTATCTTGGCCTGCATTTGATGACTCACAACCCAGCTTGATG
AAATGGGACCTTCCCAACCAGCTTCAGGATACTCTGCTCTGGAGCCTCCACCTTTGCTGGGGGGAGACAC
TGACTGGGCTCCGGGGTAGGCGCAGTGGACCTGGCAAGGGGCCCTGCTGAGGAGGAGAAGAGGCCATTG
GCACCTGAGGAGGGAGAGGATGCGGGATGCCAGGACCTGGAGTCACTTTCCCCACGAGAAGACCCTGAGA
TGTCTACCACTCTCAGCCGGAAGGTGTCTGACGTCACATCCTCAGGTGTGACGTCCTTTGATGAGGAGGA
AGGCGAGGCCAACAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG206266 representing NM_001031690
Red=Cloning site Green=Tags(s)

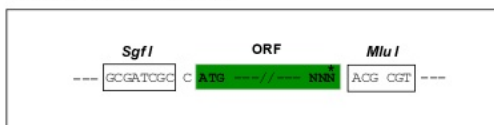
MDSTSSLHGSSLHRPSTEQTRTDFSWDGINLSMEDITTSILPKLKRNSNAYGIGALAKSSFSGISRSMKDH
VTKPTAMGQGRVAHMI EWQGWGKTPAVQPQHSHESVRRDTDAYS DLS DGEKEARFLAGVMEQFAISEATL
MAWSSMDGEDMSVNSTQEPLGCNYSNYQELMDSQDALAQAPMDGWPHSVYVSQGMVCLGSSDAWEASDQS
LIA SPATGSYLGAFLDSDQPSLHEMGPSPQASGASIEPPPLLGGTDWAPGVGAVDLARGPAEEEEKRPL
APEEGEDAGCODELS SPREDPEMSTL SRKVS DVTSSGVQSFDEEEGEANN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI
BamHI | *KpnI*
RBS
Kozac
Consensus
SgfI
AscI

CTATAGGGCGGCGGGGAATTCTGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCATCGCCGGCGCCGACAGATCT

HindIII
NheI | *RsrII*
MluI
NotI
XhoI
GFP Tag

CAAGCTTAAC TAGTAGTCAGCGACCG ACG CGT ACG CGG CGG CTC GAG ATG GAG ACG GAC --- --- ---
 T R T R P L E M E S D - - -

PmeI
FseI

--- --- GAA GAA AGA GTT TAA ACGCGCGGCCGCGAGCT
 - - - E E R V Stop

ACCN: NM_001031690

ORF Size: 996 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001031690.1](#), [NP_001026860.1](#)

RefSeq Size: 4392 bp

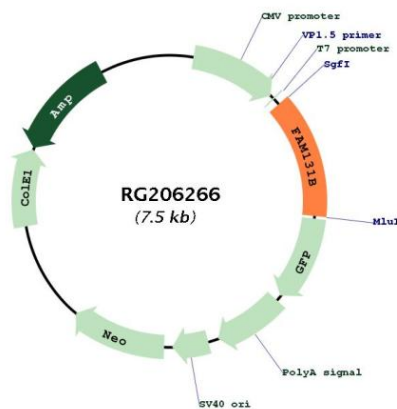
RefSeq ORF: 1083 bp

Locus ID: 9715

UniProt ID: [Q86XD5](#)

Cytogenetics: 7q34

Product images:



Circular map for RG206266