

Product datasheet for **RG207451**

FAM186B (NM_032130) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAM186B
Synonyms:	C12orf25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207451 representing NM_032130
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAGGATGACCCCCACAGTTGGTGAATCCCACATCAGTGAAAGCCATCATCCTGAGGATTGAGG
CTGCCCAGCTAACTCGGGCTCAAGAGGATATTTCTACCCAGCTCTCAGACATTTGGACAATGTCAATTG
TGTCATCAACCGCTTCCAGGAAGAATTAGGATATGATTTAAAGAAAAATGCCAAATCTCAGCAGAGAGAT
CCAAAGGGCAAGAAGAGATTCATCTTGCTGGAAAAAATTCCTCTTCTCCAAAGATGCTATGATGAAGG
AGAAGCACCTGTATGACATTCTCCGCTGGCTGGTGAATGAGTGGGTGACACTCTGACCTATGAGATTGGGCC
CAGGAAGAGTGAAGAGGAAGCAGCAGCTCTGGACGAATGGATTGAAGTGACGGAGAAAGTGTACCGCTG
TCCCTCATTGCCACAAAAGAGGCATCGAGTCACTCACTGCCCTTGTCTCACTCTCATTGAAGGACAAA
AGAAAAGGTCAAGTGTCCAAACGCACCTTCTGGCAGGGCTGGCAGGAAGAAGCCACAGACATCTCC
ATCCCATCTCAGCCACTAAGCCAGAACAGATGCTCCAGGACCAGCATACCATGAACACGAAGGCCCTCG
GAGGTGACGTCCATGCTCAGGAGCTCCTGGACTCTACCATGTTCAAGAGGGGAGGTGAGGGCCATCA
GGTACATGGCCACTGTGGTGGAGAACCTCAACAAGGCCTTGATCCTCCAACACAAGGAGAACAGGAGCCT
GGAGACCAATACAGGCACCTGCAATGCAGGCGACCAAGAGCTCAGCAGCCAGAGGCTGCACTTCCAG
CAGTTCATGGAGGTCCTTGAGAGCAGGAGGATGCTCTGCTGAAGCAGGTAGAGATCTTAGGGGAAGGT
ACCATGACCTTCTCCTGATGAAGCAGGCCTTGGAGTTCAGCTGAAGAAGGCTCAGAATGCTACAGGTCA
GGCAGAAAGCTGGCTGAGGTTTCTGTTGACTCCCGAGGTCCCTCTGAGAGAGAGACCTCCCAAGGAAA
GAAACAGTCATGGAGGAAGCCAACAGGAACCGATGAAGGAGGAGCAGTTGTTCTCGCCACTTCCCCAA
GTCCCATGGCCATGATACGGGACAGTGGTCTATAGCTGCAGGGCACCAGCCACTTTCACCATGACTAT
GCGCTCGAGGGTCGAGATGTGTTCCGCGAGCAAGGACACTGAGAGCCTTGAGCCTGTGCTTTTACCTTA
GTAGATCGCAGGTTTCTTAAGAAATGGGAAAGACCGGTGGCAGAAAGCTTAGGCCACAAAGACAAAGACC
AGGAGGACTACTTCCAGAGGGAGGACTCCAAATTAAGTTCACCTGTAGCAAGCAGCTGTCTCTAGAGAG
CTCCAGGCAGGTGACCTCTGAGAGCCAAGAGGAGCCCTGGGAGGAGGAATTCGGCCGGGAGATGCGGAGG
CAGCTGTGGCTGGAGGAGGAGAGATGTGGCAGCAGCGGCAGAAAGAGTGGGCCCTGTGGAGCAGGAGC
ATCAGGAGAAGCTGCGGCAGTGAATCTGGAAGACCTGGCCAGGGAGCAACAGCGGAGATGGGTCCAGCT
AGAAAAGGAGCAGGAGAGCCACGGAGAGAGCCAGAGCAGCTAGGGGAGGATGTGGAGAGGAGGATCTTC
ACCCCACCACTGATGGAGGACTTGGAGAAGGCAGAGCTATCATTAGTGCTGCCCAAGCCGGACCC
AATCTGCTCACCAGCAGGAGGCCACACTTGCCCATGTCTCCTAGTACCCAGCAGCCTGCCCTGGGAAA
GCAGAGACCTATGAGTTCACTGAGGATTTACCTACAGACCACGACCCGCGAGTTCCCAAAAGCCCAAG
AAATCTGCCTCCTTCTGTCACTGGGACATCCATCCGAAGGCTGACCTGGCCCTCTTTCAGATATCCC
CTGCAATATTAAGAAGAAGGTGTACCACATGGACATGGAGGCCAGAGGAAGAACCTGCAGCTCCTGAG
TGAGGAGTCTGAGTTGAGGCTGCCCACTACCTGCGCAGCAAGCACTGGAGCTCACCACCACCACTATG
GAGCTGGGCGCGCTCAGGCTGCAGTACCTGTGCCATAAGTACATCTTCTATAGACGCCTCCAGAGCCTCC
GGCAAGAAGCGATCAACCATGTACAAATCATGAAAGAAACGGAGGCTTCTACAAGGCCAGAACCTCTA
CATCTTCTGGAACATTGACCGCTGCAGAGTCTCAGGCTGCAGGCTGGACGGACAAGCAGAAGGGG
CTGGAGGAGAAGCACCAGAGTGCCTGAGCAGCATGGTGACCATGTTCCCAAGCTCCAGCTGGAGTGGA
ACGTTACCTGAACATCCCTGAGGTACCTCGCCAAAGCCAAAGAAATGCAAGTTGCCTGCAGCCTCACC
CCGGCAGATCCGCCCCAGTGGCCCCACCTACAAGCAGCCCTTCTGTCTAGGCACCGGGCATGTGTGCC
CTGCAGATGGCCCCAACAGGGGAAGCAGATGGAGGCTGTCTGGAAGACCGAGGTGGCCTCCTCCAGTT
ACGCAATAGAAAAAAGACCCCTGCCAGCCTTCCCGGGACCACTGAGGGGACACCCAGATATCCCCG
GCTGTTGACACTGGACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207451 representing NM_032130

Red=Cloning site Green=Tags(s)

```
MEKDDPPQLVTPTSVKAIILRIEAAQLTRAQEDISTQLSDILDNVNVCVINRFQEELGYDLKENAKSQQRD
PKGKKRFILLEKIASFSKIDAMMEKHLVDILRWLGWGDTLTYEIGPRKSEEEAAALDEWIEVTEKVLPL
SLIATKRGIESLTALCSTLIEGQKKRSQVSKRTFWQGWQGRSPQTSPPHQPLSPEQMLQDQHTMNTKAS
EVTSMLELLDSTMFSGEVRIRYMATVVENLNKALILQHKENRSLETKYRHLQMQLATKELSSQRLHFQ
QFMEVLESRRDALLKQVEILGGRYHDLMLMKQALEFQLKKAQNAATGQAEDLAEVSVDSPPGSPSERETLPRK
ETVMEESQQEPMKEEQFSPSPMAMIRDSGAIAAGHQPLSTMTMRSRVADVFGSKDTEPLEPVLLPL
VDRRFPPKWERPVAESLGHKDKDQEDYFQKGGGLQIKFHCSKQLSLESSRQVTSESQEEPWEEFEGREMRR
QLWLEEEEMWQQRQKKWALLEQEHQELRQWNLEDLAREQQRRWVQLEKEQESPRREPEQLGEDVERRIF
TPTSRWRDLEKAELSLVPAPSRTQSAHQSRPHLPMSPTQQPALGKQRPMSSEFTYRPRTRRVPTKPK
KSASFVPTGTSIRRLTWPSLQISPAIKKKVYHMDMEAQRKNLQLLSESELRLPHYLRSKALELTTTMM
ELGALRLQYLCHKYIFYRRLQSLRQEAINHVMKETEASYKAQNLYIFLENIDRLQSLRLQAWTDKQKG
LEEKHRECLSSMVTMFPKLQLEWNVHLNIPVTSPPKPKCKLPAASPRHIRPSGPTYKQPFLLSRHRACVP
LQMARQQGQMEAVWKTEVASSSYAIEKTPASLPRDQLRGHPDIPRLLTLDV
```

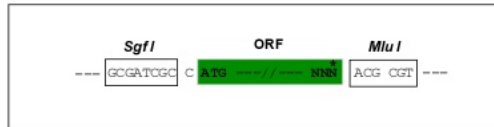
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

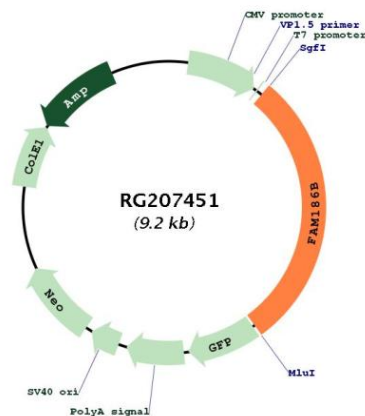


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 --- --- GAA GAA AGA GTT TAA ACGGCCGCCCGCGGAGCT
 - - E E R V Stop

ACCN:	NM_032130
ORF Size:	2679 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:	<u>NM_032130.1, NP_115506.1</u>
RefSeq Size:	2932 bp
RefSeq ORF:	2682 bp
Locus ID:	84070
UniProt ID:	<u>Q8IYM0</u>
Cytogenetics:	12q13.12
Gene Summary:	This gene product is a member of the FAM186 family, however, its exact function is not known. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG207451