

Product datasheet for **RG219047**

FAM47C (NM_001013736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FAM47C
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG219047 ORF sequence, **codon optimized**.
Due to the complexity of NM_001013736, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGCGATCAGCGGCCACAGGACAGACCAAGTAGTCCCGCATGGACTCCACCCCTTGGTATTGTGACA
AACCAACCAGCAAGTACTTCGCCAAACGGAAGCATCGCCGCCTGAGATCCCACCAAGTGGATACCCAGAA
TTGGGTTTTCGTGACCGAAGGAATGGACGATTTTCGCTACGGTTGCCAGTCCCCTGAAGACACCCTCGTC
TGCCGCCGCGACGAGTTCTGTTGCCTAAAATTAGTTGAGAGGCCCTCAGGCTGATCCCAAATCCAGAA
AAAAAAACTGCTGAAGAAAGCCGCTCTTTAGTAAGCTTTCCCTGCTCAGCCGGCACGGAAGGCTTT
CGTGGAGGAAGTGGAGGCCAGCTCATGACTAAGCATCCACTGGCTATGTACCCCAATCTGGGGGAGGAC
ATGCCCCCTGATCTGCTCCTCAAGTGCTGAAACCCCTTGACCCCGAGCGCAAGCTGGAAGACGCCGGAT
CATGTGAGGGCCAGGAGAAGACCACCGATGAGCCACAGAGCCTGGTAAGTATCCTTGCGGCGAGTTCAG
TCCGAGGCCCTGAACTAGAGTCTCTTGCTGCCCCCGAGCCGCTAAGACACCGGTGTCCTCATTG
CGCCCGGAGCCCCCGAAACCGGTGTGTCTACCTCCGCCCGAGCCCTAAGACCCAGGTGAGTTCCT
TGCACCTTGAGCCACCAGAAACCGGAGTCTCCCACTTGAGGCCCGAGCCTCCAAAACTCAAGTCAGCTC
ACTTCATCTGGAACCACTGAGACTGGGGTTTCACATCTGTATCTCGAACCTCCAGGGACCGGTGTTTCC
CACCTCTGTCCGAACCGCCCAAGACGCGGTATCCCATCTGCACAGGGAGCCTCCGAGACGGGGTAC
CGGATCTCTGCTTGAGCCTCCAAAGAGCCGGGTGTCCCATCTGCGACCAGAACCTAGCGAGACTGGAGT
TTCACACCTCCATCCCGAACCCCCAAAACCTTGGTAAGCTCACTCCATCCAGAGCCTCCAGAAACAGGC
GTATCACACCTGTGTCCAGAGCCCCAGAGACTCGGGTGTACCTCTTCGGCAGCTCCCCCAGAGGCTG
GGGTGTCTACCTTTGCCCGAACCCTAAGACACGGGTGCCACCCCTGCGACCAGAGACCCAAAAA
CGCGGTGTCTCCTCTGTTTCCGAGCCACCTAAGACTAGGATCAGTAATTGCGGAGCGAACCACTAAG
ATTGGGGTGAACCACTGTGCTGGAACCCCCAAGACGAGAGGCTCCACCTTAGACCCGAGCCTCCAG



AGACAGGCGTTTCCACCTGAGGCCAGAGCCCCAAAAACCGGGTTTCTAGTCTGCACCTGGAACCCCC
CGAGACGGGCGTCAGCCACCTGTGCCCCGAGCGCCAGAAAAAGACGTCTCCCATCTGCGACCTGAACCC
CCCCACACAGGGGTGTCCACCTGTGCCCTGAACCACCAAGACCCGGGTGACGCATCTGCGACCCGAGC
CGTCCGAAACTGGCGTGTCCCATCTGAGGCCTGAGCCTCCCAAAATCCTGGTATCAAGCCTCCACAGGC
CCCACCCGAATCAAGCGTATCACACCTGCGGCCTGAACCCCTGAAACAGGAGTATCACACCTCCGCCCT
GAACCGCCAAAACTCGGATGTACAGTCTGCGGCCAGAGCCTCCAGACACTGGCGTTTCACACCTGTGCC
CCGAACCCCTAAAACCGGGTCAGCTCTCTGCCTCCCGAGCCCCAGAACTGGGGTGAGTCACCTTTG
TCCGGAACCTCCCGAAACAGAGTTAGTCATCTGCGGCCAGAACCGCCGAGACTGGAGTGTCTACCTC
CGGCCAGAGCCTCCTAAGACACGGATGTATAGTCTGCGCCCTGAACCCCTAACACAGGCGTGTCTACC
TGTGTCCAGAACCGCCAAAAACGAGGGTGTCTTCCCTGCCACCAGAGCCCCCGAGACAGGCGTCAGCCA
TCTTTGCCCGAACCCAGAACTAGAGTCAGGCATCTCCGGCCAGAGCCACCAGAAACCGGTGTATCT
AGGCTTCATCCCGAACCGCCCAAGACCAGGGTGTCAAGTCTCCACGCGGAACCTCCCGAATCACGGGTGT
CTCACCTGTGCCCTGAGCCGCCGAAACCGGCGTGAGCCACCTCAGGCCGAGCCCCCTAAGCCAGGGT
GTCCAGCTTGCAGCCGAGCCACTTGAACCCGCGTAAGCCACCTCCGCCCGAACCTCCCGAGACAGGA
GTGTCTCACCTCCACCTGAGCTGCCGAAACCCGCGTGAGCAGCCTGCACCTCGAGCCCCAAAGACAC
GGCGAGTTAGCTCATTGAGACTGGAGCCCCCTAAAACCTGGTAGAGTTAGCTCTCTTTGTCCAGAGCCAC
TAAGACGGGAGCGTCTCACCTTAAGGAACTGTTCCAAGAAGGTACCTCCTCTACAATGGAATGTGTACAG
GATTCCTGCAAGACGCCACACGTCTCGGAACTTAGAGACTTCAATGGGCTGGCGATCTGGGAGTCA
ATGAAGAAAGCATTTCATCTTTGTTGATTTCACTCCGAATGCAGAGCTACCTACCAGGACCAAAAGAA
CAAGAAGGCGAATGAGTGCAGCAGCGGCCCTCAAGTATTCCATGGAACCTCGATGAAATGGATGAGGTTAAG
TTCTTCTCACAGGAGAAAGATCTGGACGGCAAGATTGAGAACGCCCAATAGCCACTCCGCTCAACATG
TAAAAATGGGGTACGGCGCTTGGTACTTGAAGCCAAAGTTGGGCAAGAAATGCGCTCAGACGAGCCTCT
GATCGACCCCAAGCTTGTGTTGAGAAGCCAGATGAGCCTGACATCTGGACGGCCTGTATGCCCCATC
GCCTTCAAAGACTTCATTCTTTCTAAAGGCTATGAAATGCCAGGGATAATCCAACGCTTGTTCGCCCGCA
GGGGTTGGACATACGATTCCGTTAAGACTCCCATTAGCGGGCTATGCAAGTGTATAAATACAAGGAGGA
CGTGACGGATGCCTCAGAAGAGGAC

AGCGGACCGACGCGTACGCGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219047 representing NM_001013736
Red=Cloning site Green=Tags(s)

MGDQRPQDRPSSPGMDSTPWYCDKPPSKYFAKRKHRRLRFPVDTQNWVFTGEMDDFRYGCQSPEDTLV
CRRDEFLLPKISLRGPQADPKSRKKLLKKAALFSLSPAQPARKAFVEEVEAQLMTKHPLAMYPNLGED
MPPDLLLQVLKPLDPERKLEDAGSCEGQEKTTDEPTEPGKYPCGEFSRPPETRVSLPPEPPKTPVSSL
RPEPPETGVSHLRPQPKTQVSSLHLEPPETGVSHLRPEPKTQVSSLHLEPPETGVSHLYLEPPGTGVS
HLCPPEPKTRVSHLRPEPPETGVPDLCEPPKSRVSHLRPEPSETGVSHLRPEPKTLVSSLHPEPPETG
VSHLCPEPPETRVSLRQLPPEAGVSHLCPEPKTRVPLRPETPKNGVSPLFPEPPKTRISNLRSEPPK
IGVSHLCLEPPKTRGSHLRPEPPETGVSHLRPEPKTRVSSLHLEPPETGVSHLCPEPPEKDVSHLRPEP
PDTGVSHLCPEPKTRVSHLRPEPSETGVSHLRPEPKILVSSLHQAPPESSVSHLRPEPPETGVSHLRP
EPPKTRMYSLRPEPDTGVSHLCPEPKTRVSSLPEPPETGVSHLCPEPPETRVSHLRPEPPETGVSHL
RPEPKTRMYSLRPEPNTGVSHLCPEPKTRVSSLPEPPETGVSHLCPEPPETRVSHLRPEPPETGV
RLHPEPKTRVSSLHAEPPESRVSHLCPEPPETGVSHLRPEPKPRVSSLRPEPLETRVSHLRPEPPETG
VSHLRPELPKPRVSSLHLEPPKTRRVSSLRLEPKTGRVSSLCEPTKTGASHLKELFQEGTSSTMECVS
DSLQRRHTSRKLRDFKWAGDLGVNEESISLDFDTPECRATYQDQKNKANECSSGLKYSMELEMDDEVK
FFSQEKDLGKIQNAPNSHSAQHVKMGYAWYLPKLGKLRSDPELIDPKLVLEKPDEPIDLDGLYGP
AFKDFILSKGYEMPGLIQRLFARRGWYDSVKTPIQRAMQVYKYKEDVTDASEED

SGPTRRRLE - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001013736

ORF Size: 3105 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).

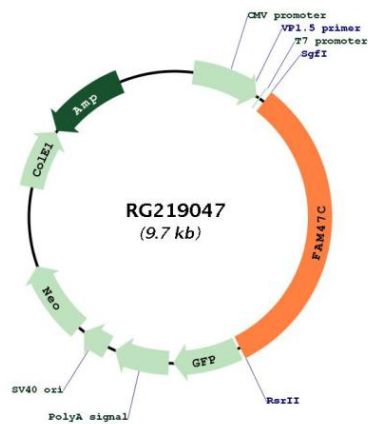
Reconstitution Method:

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_001013736.1 , NP_001013758.1
RefSeq Size:	3308 bp
RefSeq ORF:	3108 bp
Locus ID:	442444
UniProt ID:	Q5HY64
Cytogenetics:	Xp21.1

Gene Summary: This gene encodes a product belonging to a family of proteins with unknown function. The coding sequence of this family member includes several tandemly repeated regions. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG219047