

Product datasheet for **RC227872**

FAM171A2 (NM_198475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM171A2 (NM_198475) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM171A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227872 ORF sequence, **codon optimized**.
 Due to the complexity of NM_198475, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGCCACCAGCCTCTGGCCCAAGTGTCTCGCCCGGCTGCTCCCCTGCTGGGATTGTTGTTGGGGAGCGCTAGTCGAGCACCAGGAAAGAGTCCCCCGAACCCAGCCCTCAGGAGATCCTATTAAGTGCAGGTGTACGTACAGCGGCGAGTTGGTACCCCTTGCCCGGGCTCCGTTGACGTCTTCGGGAACCGAACTCTCCTGCCGCTGGCACAACAGACTCCGAGGGTGTGGCGACATTGCCGCTGCTCTATAGGCTGGGTACATGGGTGCTGTTACGGCTGCAAGGCTGGCTTCTGACAACTCCGTTCCCTGGCGGTTGATAAGCTGCCACTCTATGCCAGTGTGCTCTACTTGCTGCCCCGAGCGCCCTGCGACCCTGATTTTGTATGAGGACTTGGTGCATATTCTGCTGGGTAGTCCCGGTGCAAGGTCAACCTCTGGTCCAGTTTCAGCGGCGCGCCGAAGACTGCGGTGTCAAGCACCTATTCTCAACTGTGGGCTTCCCTCACCCAGCCAGTACACAGCAAGAGATGAGGGCCTTCCCAGCATTCTGGGCACAGAGGCTCAAGCAGTGGAAATGGGAGCTGGCTTGAGCTCATGCCGCTCACCGCGTGAGCGTGACTTGCTCACCGGAACGGCACTGAAGTGCTCTCTCAGGGCCATCCACCTTCTCTGCCTGTGCCCTCTGAAACCCAGAGCACTCACGGTGGTACTAGTATACCTGCTTGGCGATTCCGATCCCAAAGTGGCCTGTGGGTAAAGAACGGCACAGGCGTCAATTCGAAAGAAGGCCGACAGTTGTATTGGACTTTGTGTCTCCACAATTGGGCTACTGGGTGGCCGCATGGCATCTCCACAGCTGGCTTGGTGACCATCACTAGCGGGATACAGGACATCGGAACCTACCACACTATATTCTGCTGACAATCCTGGCGGCACTGGCTCTGCTGGTGTGATTTTGTGTGTCTGCTTATCTATTACTGTGCGCGCAGGTGCCTGAAGCCTCGCCAAACAGCATCGCAAGTTGCAACTTAGCGGACCTAGCGACGGCAACAAGCGCGACCAGGCTACCTCTATGTCTCAGCTGCACCTGATCTGTGGCGGGCCCTGGAGCCCGCTCCAGCGGAGATCCAGAAGCGCCACCCCGGTCCCTTGATAGTGCCTTCTTCTTCCAGAGATCTGGCCAGCTCTCGAGACGATTTTTTTAGGACTAAACCTAGGTCCCGCAGTAGGCCAGCTGCGGAGCCTAGCGGAGCACGGGGTGAAGCGCTGGACTTAAGGGAGCTCGCTCTGCTGAGGGGCTGGTGGCCTTGAGCCAGGTCTGGAGGAACATAGGAGGGACCATCTGGGGCCGCTGCATTCTGCACGAACCTCCATCCCCCACCGCCATTCGACCACTACCTGGGTACAAAAGGGGCCGCGAAGGCAAGACACCTGACTTCTGCTCAGTCAATCAGTCGACCAGCTGGCAAGACCTCCCAGTCTGGCCAGGCCGGCAACTGATCTTTTGTGGCAGCATCGACCATCTGAAGGACAATGTTTATCGAAACGTGATGCCTACCTTGTGATTCGGGCCATTACGTGCGGCTCGGGGGAGAAGCTGGCGCGGCTGGCGTCGGCGACGAACCAGCCCCTCCAGAGGGGACCGCCCCGGACCAGCTAGGGCTTCCCTCAACCAGACCTCAAAGGCGCAGATGCCGGGTATAGCGGTCTGGGGCGAAGGCGGAGGCGGCGGCTGAGGGATGGGGGCGCGCGCGCTCCAGTATCCGGTCTGTTACCATTCCTGTCTGTTAACGAGTCTACTATGGCCAGCTGAACGGAACCTCAGGCGCTTACTGAGAAGAACTGCTCGAATTGGGCGTTAAGCCCCACCCAGAGCTTGGTTCTGTAGCTTGGACGACGGAGTAATAGCCAGGTGAGACACTCTACATAGACCTCCAGGCAGGAGCGGCGCGCATCAACTGACGCTTCAATTGGACTCTGGGGTGGACGTTTATGAGGCACGCCCCGCTAGGAGAAGGCCAGCCAGAGAGGAACGGGAGAGGGCTCCCCCTGCCGACCTCCCCCTCCACCGCCCCCCCCAGACTGGCTCTCTGAGGATACTGAACCTTCACTTTCAGAGTCTCGGACTGGCCTTTGTAGTCCCAGAACACAGCTTGACTCTCTCTGGACGAAGTCGCTGCCCGGAGGGCAGAGCCGCTACAGTTCCCCGGGTAGGGCCGGTCAAGGGGTGACTCTTCTAGGTCTCCGCCAGCGAACTCCGCCGGGATAGCCTTACTTCTCTGAAAGACGACTCGGGCAGAAGTGGCGATGAGGCTGGGACAAGAAATCACCTGGCAGAGGCGCGAGGACGCCCTTGATGGTGTAAATGTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

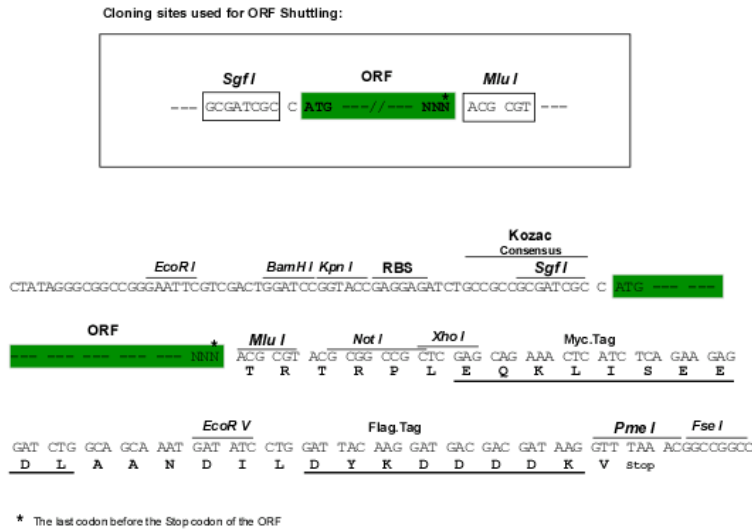
Protein Sequence: >RC227872 representing NM_198475
 Red=Cloning site Green=Tags(s)

MPPASGPSVLARLLPLLGLLLGSASRAPGKSPPEPPSPQEILIKVQVYVSGELVPLARASVDVFGNRTLL
 AAGTTDSEGVATLPLSYRLGTWVLVTAARPGLTNSVPWRVDKPLYASVSLYLLPERPATLILYEDLVH
 ILLGSPGARSQPLVQFQRRARLPVSSTYSQLWASLTPASTQEMRAFPFLGTEASSSGNGSWLELMPL
 TAVSVHLLTGNGTEVPLSGPIHLSLPVPESTRALTVGTSIPAWRFDPKSGLWVRNGTGVIKREGRQLYWT
 FVSPQLGYWVAAMASPTAGLVTITSGIQDIGTYHTIFLLTILAALALLVLILLCLLIYCRRRCLKPRQQ
 HRKLQLSGPSDGNKRDQATSMSQLHLICGGPLEPAPSGDPEAPPGPLHSFSSSRDLASSRDDFFRTKP
 RSASRPAEPPSGARGGESAGLKGARSAEGPGLLEHRRGPGSAAAFLEPPSPPPFDHYLGHKGA
 AEGKTPDFLLSQSVDQLARPPSLGQAGQLIFCGSIDHLKDNVYRNVMP TLVIPAHYVRLGGEAGAAGVGD
 EPAPPEGTAPGPARAFQPDQPMPGHSGGGGGGGGGGWGAGRAAPVSGSVTIPVLFNESTMAQL
 NGELQALTEKKLLELVKPHPRAWFVSLDGRSNSQVRHSYIDLQAGGARSTDA LSDGVVDVHEARPARR
 RPAREERERAPPAAPPPPPAPRLALSEDTEPSSSESRTGLCSPEDNSLTPLLDEVAAPGEAATVPRGR
 GRSRGDSSRSSASELRRDSLTSPEDELGAEVGDEAGDKKSPWQRREERPLMVFNVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

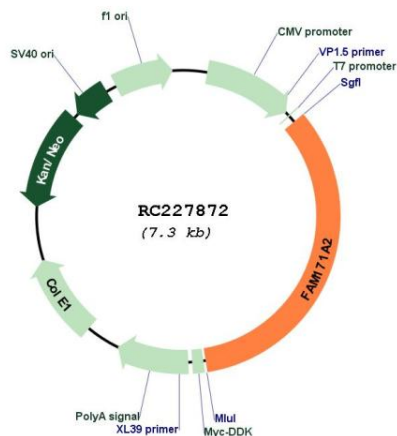
Cloning Scheme:



ACCN: NM_198475

ORF Size:	2478 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_198475.2 , NP_940877.2
RefSeq Size:	2634 bp
RefSeq ORF:	2481 bp
Locus ID:	284069
UniProt ID:	A8MWW0
Cytogenetics:	17q21.31
MW:	87.4 kDa

Product images:



Circular map for RC227872