

## Product datasheet for **RC228382**

### **FAM90A18 (NM\_001164451) Human Tagged ORF Clone**

#### **Product data:**

|                                  |                        |
|----------------------------------|------------------------|
| <b>Product Type:</b>             | Expression Plasmids    |
| <b>Tag:</b>                      | Myc-DDK                |
| <b>Symbol:</b>                   | FAM90A18               |
| <b>Synonyms:</b>                 | FAM90A19               |
| <b>Mammalian Cell Selection:</b> | Neomycin               |
| <b>Vector:</b>                   | pCMV6-Entry (PS100001) |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)   |



**ORF Nucleotide Sequence:** >RC228382 representing NM\_001164451  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGATGGCAGTCGGGACCCCAATCTTGGCCAAGAGACTGGTGAGAGCCAGACCCTCCAGAAGCAGC  
 GGAGGGCCCCAGTTGGGCCAAGGGCTCCCCCGCCGATGAAGAAGATCCCAGGCTCAAGTGCAAAACTG  
 CGGGGCTTTGGCCACACGGCCAGAAGTACCAGGTGCCCCATGAAGTGCTGGAAGGCAGCCCTGTTCCA  
 GCGACCTTGGGAAAAAGGAAGGGAAGGAAACCTGAAACCATGGAAGCCCCGGGTTGAAGCCAACCCGG  
 GGCCCTTGAACAAGGATAAGGGAGAGAAGGAAGAGAGACCAAGGCAACAAGACCCGAGAGGAAGGCTCT  
 CCTCCACATGTTTTCCGGGAAACCTCCAGAGAAGCCGCTGCCGAATGGAAAAGGATCCACGGAGTCTTCT  
 GATCATCTGAGGTTGCAAGCGGGCAATGCCGGTCCACACAACCAAGTAAGAGGCCGCGCTGGACCCTG  
 TCCTCGCTGATCGCTCAGCTGCCGAAATGTCTGGCAGGGGCTCCGTCTTGGCTTCACTGTCTCCCTCAG  
 AAAAGCCAGCCTGAGCTCCTCTCAAGTCTTGGACCAAGGAAAGACAGACAGGGGCTGCGGCCGACATG  
 CCTCAGCCTGCAGTCAGGCACAGGGCCGCGAGCCTCTCCTCGTGGTGAAGCCGACACACAGCAGCCCCG  
 AGGGTGGCTGCCGAGAAGTTCCCCAGGCTGCCTCCAAACCCACGGCCTGCTCCAGGCCGCCAGACCCCA  
 GGCACAAGACAAACGTCTCGGGTGACCTCGCAGCCCTGCCGCCAGCCGCCACACAGCTTGGGCCTA  
 GGCTCAATCTCAGCTTCGGGCCAGGAGCCAAGAGACTGCCAGGCTCCGATTCAGGCTTGCTGAAAT  
 TCCCCAAGAAACCGAGACTGGGTCCCTTCCAGATCCCCGAAAGCGCCATCCAGGGAGGTGAGCTGGGGGC  
 CCCGGGAATCTCCAACCTCCGCCAGCCGCAACCGAATTGGACCAAGTACGTGCCCCAGATGGGCAGG  
 AGGACACCGGCCAGGTGCCAGCGTCGACTGGCAGCCTCCGCACAGCACACCTTGCTGCCTACTGCC  
 AGGCTGCACCATGTCCATCACTCAGCGGCCAGCCATGATGGGGCCAGCCTCTCAGAGTGCTCTTCCG  
 GAGACTGGAACGAGCCTGGAGCTCCAGCCTCTGGCGGCCCTCATTTCACTCTCTGAGAAGCCG  
 GGAGCCTTCTCGCTCAGAGCCTCATGTGTAGAGAAGTCTGAGGCTCCCTGTGTTGTTGCCACCGA  
 GCGTCTCTATGAGGACCTCAGGTTCTCTCTCTCAGAGGACAGCGATTCTGACCTGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC228382 representing NM\_001164451  
 Red=Cloning site Green=Tags(s)

MMARRDPKSWAKRLVRAQTLQKQRRAPVGPRAAPPDEEDPRLKCKNCGAFGHTARSTRCPMKCWAALVP  
 ATLKGKEGKENLKPWKPRVEANPGPLNKDKEKEERPRQDPQRKALLHMFSGKPPEKPLPNGKSTESS  
 DHLRVASGPMVHTTSKRPRVDPVLADRSAAEMSGRGSVLASLSPLRKASLSSSSSLGPKERQTGAADM  
 PQPAVRHQGREPLL VVKPTHSSPEGGCREVPQAASKTHGLLQAARPAQDKRPVTSQPCPPAATHSLGL  
 GSNLSFGPGAQRPAQAPIQACLKFPKPKRLGPFQIPESAIQGGELGAPGNLQPPPAATELGPSTSPQMGR  
 RTPAQVPSVDWQPPHSTPCLPTAQAQCTMSHSAASHDGAQPLRVLFRRLENGRWSSSLLAAPSFSHSEPKP  
 GAFLAQSPHVSEKSEAPCVRVPPSVLYEDLQVSSSSSDSDSLE

**TR**TRPLE**QKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8038\\_e03.zip](https://cdn.origene.com/chromatograms/mk8038_e03.zip)

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



ACCN: NM\_001164451

ORF Size: 1392 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\\_001164451.1](#), [NP\\_001157923.1](#)

RefSeq ORF: 1394 bp

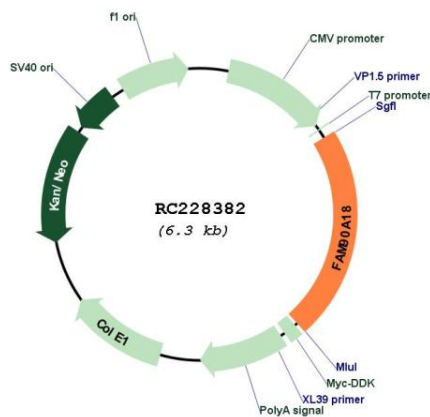
**Locus ID:** 441326

**Cytogenetics:** 8p23.1

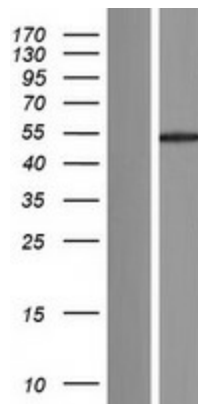
**MW:** 49.5 kDa

**Gene Summary:** FAM90A18 belongs to subfamily II of the primate-specific FAM90A gene family, which originated from multiple duplications and rearrangements (Bosch et al., 2007 [PubMed 17684299]). For background information on the FAM90A gene family, as well as information on the evolution of FAM90A genes, see FAM90A1 (MIM 613041).[supplied by OMIM, Oct 2009]

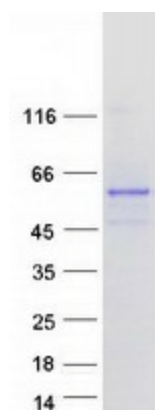
## Product images:



Circular map for RC228382



Western blot validation of overexpression lysate (Cat# [LY431410]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228382 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM90A18 protein (Cat# [TP328382]). The protein was produced from HEK293T cells transfected with FAM90A18 cDNA clone (Cat# RC228382) using MegaTran 2.0 (Cat# [TT210002]).