

Product datasheet for **RR217652**

Zfyve16 (NM_001191958) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zfyve16 (NM_001191958) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Zfyve16
Synonyms: RGD1564784
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217652 representing NM_001191958
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACAGTTACTTTAAAGCAGCTGTCAGTGACTTGGACAACTTCTTGATGATTTTGAGCAGAACCAG
AAAAACAAGATTACTTCCAAGATGTGCAGGATGTTTATGCTTTAAACAGTGTTTCAGTTTCTTCAGAGTT
GGCTCTCCACAGCTAGCTTTACTGTCAAAGGACCAAGATGCATTAGTAGTCATGCCTCATCAGAAACA
TGCTGTGAAGCAATGAGACTTTTCTCCAAGGAAAGATACCTGAGGGGTTAACCTCTAAACAGAATGAAA
AAAACGTAGCGGGACTTGATCTTCTTTCTGTGGATGCTAGTACTTCAGATGAGATCCAGCCTTCATG
TATGAGACGATGTAGTAAGCCTGTCTGTGACCTGATAAGTGACATGGGTAACCTAGTACACGCCACCAGT
AGTGAGGAAGACATTAACAGTTATTGCCAGATGACTCGAAGTCTCCTGCAGATACTTTGATCACACTGG
ACTCATCTTCAGTTTCAGAGTTTTGATCGGATTGGATTTGTCTTCAGTTTCAGATACTCTCGCTGTTTC
TTCAGTAGACGGTGGTAGTCAGGCTGTCAGGAAAGAGCAGGATACCAACGCTGGTGTGCAAAGCAGAGAT
AACAGTAGGATCCAAGAATCGGGTGCAGAAGTGGACATGGCACTTCTGATTCTTGTAATAATAGTAGAA
CAGAAAATTTAAAGGATAAAATGATTTCTAATGAGTTAGAAACAGTTGATTTTGGCATGCCATCTGTTTT
GACTGAACAGAGTTCAGAAATGTCCAATACCAAAGATAGCCACAATACCAGAGGCTGCCATGTGAGCTG
TTAAAAGATGACGGTGATTTGGCAGAAGAGAAAGTAGGCATGGCAGGCAATAGTACAAAAGTGTTTAGAAG
AAGGAGGTAACATAATTGCTATGCCTTGAAGCTTCCAAAAATGAAGAGATATCCCAAATGACCCAAC
TTCAAAGATGAAAACCTCAAGTTACCTGACTTTTCTGTCCAGGAAAGTAGAACTGCTGTGTTTCATAAAG
CAGACTGTGGCAGAGGACTCGGTAAGTCAGACCTTAAAGATAATAATGATGTCGTCGAAGTTCTTCTT
CATCTCTACATGTTTCGAGTGATGGTGTGCCCTTCACTGTCCTGTCTTTCATTGTCTGGGTCTTTGTG
TGGATCCTTAGTTGACTGTAATGCACATGGTGATTTTTACCCTCTGATGAGTCTAAAGGTCAGAACAAT
GACGCAGTAACCTGCACATGAGGAGATACAGAAGAGTGCCGCTTTAGATGGGGAGACAGATCTCCTGAAGA
AGGAAAAGCAGGAAAGCATGTTTCTTACGCCAGTAAATGATAAGGAAGGGGATGGAGAGGTTGAACCTTGA
GGAGATGGTAATCAGCGGTGAGCCTTTGGAGTACCCTGAGGGTACCAACCCTGCCGAGCTGGCTCTCAA
ATGGCACCCCTACTGTGAGTGCCTCAGAGGCTCCTGGTCAGTGCAGGCTCTCACTTTTTCCAGTGGCC



ATATGGATGGGCAAGAGTTAGATTACTTTAATATTGATGAAAGCATGAGAAGTGGCATACTGGTTAGCGA
TGCTGAACCTTGATGCTTTTCTGAAGGAACAGAGTCTTCAGAACTTAACACCCATGTCTTTTGGAGAAAAT
GCAAGTGATTACAATTGCAGATGAATCAGATAGATATGAAAGGATTATGTGATGAAAATGCTGGTGATA
GATACTTCAATGCTGAAGCAGGAGCTGCTGGCGAAAAGTGGAGGCGTTGTGATTTGTGAAACAACCTGATA
AGAAAACACAGTACAAAATGGTGGTCTTTCTGTAGGAGAAAAAGCGCAATTCACCGAAAAGAGGGTTA
TCTGCTAGTCAGCCTGACATACGGAGTGAAGTCCAGTCCCAGTATTAACACCCAGGCTGTCCGAGGAG
CTAGACCTAAGCAGCTGCCGAGTCGTCCACCAGGAACAAGCAGTTCACAGGGACCGAGTAAGCCACATGT
TGTAGGTGTGCCAGCAGCGAGCCAAGCACAGCAAATGCTGCTGCACCCACTCGCCCTGCAGATCAT
ACACCTGATTCTCAGTTAGCTTCAACTCCAATTATATCGACATAGAAAAGTAATTCGAAGTGATGCCA
GTTTTGTAACAGCAAACAAGGATTCAGTGCCTGAGAATATACGAAAAGAAGGCTTGGTTTTGGGCCAGAA
ACAACCTACGTGGGTTCTGATTGAGAAGTCCAACTGTATGAACTGCAAAGTCAAATTCACCTTTTACA
AAACGGCGACACCACTGCCGAGCTTGTGGGAAAGTATTTTGTGGTGTCTGTTGTAACAGGAAATGTAAGC
TTCAGTATCTAGAAAAGGAAGCAAGAGTGTGTGTGATCTGCTATGAGACTATTAATAAAGCTCAGGCATT
TGAAAGGATGATGAGTCCAGGTGGTGTCTTAAAGTCTAATCATTCTAATGAGTGTGCTACTGCCAG
CCACTTCAGGAGACCCAAACGTCCAGCATACCTTACCTACAGCTTTGCCATCTCAGCACTGAAACAAC
CAAATGTCGAAGGACCATGTTCCCGAGAACAGAAGAGAGTATGGTTTGCAGATGGCATACTGCCGAATGG
TGAAAGTTCGAGATACTACGAAATATCCTCTGGAAGTAAAAGGTGTTCTGATGACTTTAGTCTGTCTTA
CCTGATGCGCCACAGTGATAAAATAAGTGGACCATACCCCTCTCCTATGGTGGAGAAAGCAAACAACA
GTGTAGGAGACGTTCTAAGAAGTGAGATAAAGTCCAGTCCGATTTGTCGTGCTGCACCTCTGGAAATACT
GCCTGGGAGCACAGGCGCTGAAGGCTTGCCACAGCTGGCCCTTTCACACTAGAAGATGATGTTTTGTG
GACAGTGGAGGCCATCTACTCTACTGTTGTCCCTGCTAATACTGGTTGCCTGTTGCTAGTGTTCAG
ACTATAGGTTATGTGTGGTGTGCGAAATGTGCTGCAATAACATTAGTCTTCTACCAGATGACAGATGT
TGTTTTGCCTCCCCTTCTGGCCACATCTGGAGAAGATGGATCAGTGCCTGTAGTACAAGAACCATCT
CATGAGCAGATCATTCTTCTTGAAGTGAAGGATTTCTCCTGCCACATTTGTTCTAATGCAAACC
TACTTGTGAATGTCAAGTTGGTATTTTATTCTCAGATAAGTATTGGTACTTCTCAACCAATGGATTGCA
TGGTTTTGGGACAGGCAGAAATTATTATCCTGTTGCTATGCTTGCCAAATGAGGATACAGTTCCTAAGGAC
ATCTTTAGACTATTCATCACCATATATAAGGATGCTTCGAAAGGGAAAGTACGTAGAAAACCTGGACAATC
TGACCTTTACTGAGAGTTTTCTCAGTAGCAAGGATCACGGAGGGTTCTATTATCACACCTACCTTTCA
GAAACTTGACGATCTCCAGTACCAAGGAGCCCTTTCTCTGTGGCATTCTCATCCACAAGCTGGAGATT
CCCTGGGCAAAGGCTTTCCCTATGCGTCTCATGTTGAGATTAGGGCAGAAATACAAGCATATCCTGCTC
CTCTAACAAAGTGTGAGAGCAGGAGACCGCTTTTCGGAGAAATAGGACATACTATTATGAACTTACTTGT
TGATCTTCGAAATTACAGTATACATTGCATAACATCGATCAGCTGTTAATCCATATGAAATGGGGAAA
AGCTGTATAAAGATACCTCGGAAAAGTACAGTGTGATTGAAGGTAATAAATCTTCTAACGAGCAGC
TCATCAGTATTGGGGCTAGTTTTAGTACAGAAGCAGATTCTCATCTGGTCTGTGTACAGAGTGTGGAGT
TTATCAGACTCAGGCCAACAGTGCCACTGGTCCAGCAAGGAAAGTACAGGTGCAAGTTTTGTGGTGTTT
AATGGTGTCTGAAAACATCTTCAGGATTTCTTGCCAAATCCAGCATAGTCAAGATGGCTTAATGGTTC
AAATAACCCAGAGACCATGGATGGCTTACGGCTGGCTCTACGAGAGCAAAGGACTTTAAAATTCAGTG
TGGAAAAGTTGATGCAGTAGACCTGAGAGAATATGTGGACATCTGTTGGGTGGATTCCGAAAGAAAGGAAA
AACAAAGGTGTTATCAGTTCAGTGGATGGGATGTCATTAGAAGGATTTCCAAGTAAAAAATAAACTGG
AAACAGATTTTGAACCTGAAGAGAAGACTGTGAAATGCACTGAGGTGTTCTGCTTCTAAAGGACCAAGGA
TATCTCTCTCTCAGTAGTTACCAGTTTGCAAAGAGATCGCCACGGCTTGCAGTGGCCCTGTGC
CCTCACCTGAGGACTCTAAAGAGTAACAGAATGAACAGAATTGGACTCAGAGTTTCTGTTGACACTGATA
TGGTTGAATTTACGGCAGGCTGTGAAGGGCAGCTTCTGCCTCAGCATTACCTAAACGATCTTGATAGCGC
TCTGATACCTGTGATCCACGGCGGACCTCCAACCTCGACCGTCCACTCGAGATAGAGTTAGCATTCTTC
ATTTTAGAAAACCTTCTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217652 representing NM_001191958
 Red=Cloning site Green=Tags(s)

MDSYFKAASVLDLKLDDFEQNPEKQDYFDVQDVYAFNQCSVSSSELASPQLALLSKDQRCISSHASSET
 CCEANETFLQGIPEGLTSKQNEKNVAGLDLLSSVDASTSDEIQPSMRRCSKPVCDLISDMGNLVHATS
 SEEDIKQLLPDDSKSPADTLITLSSSVSEVLIGLDLSSVSDTLAVSSVDGGSQAVRKEQDTNAGVQSRD
 NSRIQESGAEVDMALSDSCKYSRTENLKDKMISNELETVDGFMPSVLTEQSSEMSNTKDSPYQRLPCEL
 LKDDGDLAEEKVGMAGNSTKCLEEGNI IAMPCKLPKNEEISPNDPTSKDENFKLPDFSVQESRTAVFIK
 QTVAESVKSCLKDNNDVVQVSSSSLHVSSDGVSPSLSCLSLSGSLCGSLVDCNAHGDFLPSESKGQNN
 DAVTAHEEIQKSAALDGETDLLKKEKQESMFLQPVNDKEGDGEVELEEMVISGEPLEYPEGTNPAAAGSQ
 MAPPTVASEAPGQCEALTFSSGMDGQELDYFNIDESMRSGILVSDAELDAFLKEQSLQNSNTMSFGEN
 ASDSQLQMNQIDMKGLCDENAGDRYFNAEAGAAGESGGVICETTDKENTVQNGGLSVGEKSAIPTERGL
 SASQPDIRSEVPVPSINTQAVGGARPKQLPSRPPGTSSSQGPKPHVVGVPAPEPSTANAAAAPTRPADH
 TPDQSVFNSNYIDIESNFEGGSSFVTANKDSL PENIRKEGLVLGQKQPTWVPDSEAPNCMNCKVKFTFT
 KRRHHCACGKVF CGVCCNRKCKLQYLEKEARVCVICYETINKAQAFERMMSPPGACLKSNHSNECVTAQ
 PLQETQTS SIPSPTALPISALKQPNVEGPCSREQKRVWFADGILPNGEVADTTKLSGSKRCSDDFSPVL
 PDAPTVINKVDHTSPMVEKANSVGDVLRSEITQSPI CRAAPLEILPGSTGAELPTAGPFTLEDDVVFV
 DSEEPSTPTVVPANTGLPVASVSDYRLLCGVAKCVCNNISLLPDDDVGLPPLLATSGEDGSPVVQEHPS
 HEQIILLLESEGFPATFVLNANLLVNVKLVFYSSDKYWFSTNGLHGLGQAEIILLCLPNEDTVPKD
 IFRLFITIKYDASKGKYVENLDNLTFTESFLSKDHGGFLFITPTFQKLDLVPVPRSPFLCGILIHKLEI
 PWAKAFPMRLMLRLGAEYKAYPAPLTSVRGRPLFGEIGHTIMNLLVDLRNYQYTLHNIDQLLIHMEMGK
 SCIKIPRKKYSDVLKVINSSNEHVISIGASFSTEADSHLVCVQSDGVYQTQANSATGQPRKVTGASFVVF
 NGALKTSSGFLAKSSIVEDGLMVQITPETMDGLRLALREQKDFKIQCQKVDVADLREYVDICWVDSEERK
 NKGVISSVDGMSLEGFPSEKIKLETD FETEETVKCTEVFCFLKQDQISLSSSSYQFAKEIATACSAALC
 PHLRTLKSNRMNRIGLRVSVDTDMVEFQAGCEGQLLPQHLYLNDLDSALIPVIHGGTNSNSTVPLEIELAFF
 ILENLLE

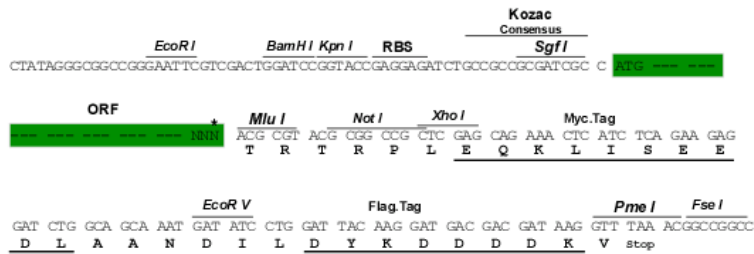
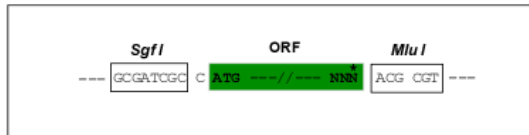
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

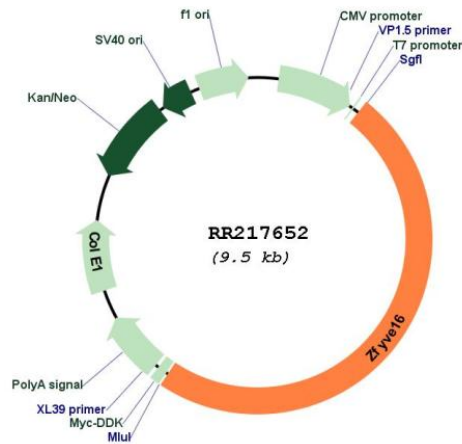
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001191958

ORF Size: 4641 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.

RefSeq: [NM_001191958.1](#), [NP_001178887.1](#)
RefSeq Size: 5372 bp
RefSeq ORF: 4644 bp
Locus ID: 499508
Cytogenetics: 2q12
MW: 167.5 kDa