

Product datasheet for **RR203344**

Mertk (NM_022943) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mertk (NM_022943) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mertk
Synonyms: rdy
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203344 representing NM_022943
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTTCTGGCCCCACTACTGCTGGGGCTGCTGCTGCTATCCGCACTCTGGAATGGAGGCACTGCTGAAA
AGGAGGAAGAAATCAAGCCAGATCAGCCATTTTCAGGGCCTTTACCAGGGAGCCTACCAGCTGACCACAG
GCCATTCTTCGCCCTCACTCCAGTGGGACCAGCTGTACCATCCAGACTGGAAGATCACATCCAGCA
CACACAGCCACTCCCAGATGACCTCTGCAGCATCAAACCTCCTGCCTCCTGTTGCATTTAAAAACAA
TTGGACGCATAGTACTTTTCGGAACATAAAAAGTGTCAAATTTAATTGCTCGATCAACATTCCTAACGTGTA
TCAAGAAACAGCTGGCATTTCGTGGTGGAAAGATGAAAGGAACTGCTTGGGGCAGATCATTCAATCACA
CAGTTTTATCCTGATGAGGAAGGGGTATCAATAATTGCATTGTTTCAGCATAACCAGTGTGCAGCGCTCAG
ACAATGGGTCTGATACATCTGTAAGATGAAGTGAACGATAGAGAGGTTGTGTCTGATCCCATATACGTGGA
AGTCCAAGGACTCCCTTACTTTACTAAGCAGCCTGAGAGCGTGAATGTACCAGAAACACAGCCTTCAAC
CTCACCTGCCAGGCTGTGGGACCCCTGAGCCCGTCAACATCTTCTGGTTCAAAATAGCAGCCGTGTTA
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TGAGGCCACAACGACAAAGGACTGACGGTGTCCAAGGGTGTACAGATCAACATCAAAGTATCCCTTCC
CCACCCACTGAAGTCCATATCCTCAACAGCACAGCGCACAGCATCCTGGTCTCCTGGGTCCCAGGTTTTG
ATGGTACTCCCCACTTCAGAACTGCAGCATTCAAGTCAAGGAAGCTGACCAGCTGAGTAATGGCTCAGT
CATGGTTTTTAATACCTCTGCTTCGCCACATCTGTATGAAGTCCAGCAGCTGCAAGCCCTGGCTAATTAC
AGCGTCACTGTGCTCCTGTCGGAATGAGATTGGCTGGTCTGCAGTGAAGCCTTGGATCCTGGCCAGCACTA
CAGAAGGAGCTCCAGCAGTGGCGCCTCTAAACATCACTGTGTTTCTGAACGAATCCAGCAACAACCTGGA
AATCAGATGGACGAAGCCTCAATTAAGCGGCAGGATGGGAACTGGTGGGCTACCGGATATCTCACGTG
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CAGTGAGCCAGTGGACGTAGCCATTCGGAGCACAGTAGGGTAGATTACGCACCCTCATCAACCCAGCC
CCTGGCAACACCGAGTCTATGCTCATCATCCTGGGCTGCTTCTGCGGGTTTGTCTCATGGGTTGATTC



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TGTATCTTTCTCTGGCCATCAAAAGGAGAGTCCAGGAAACAAAGTTTGGGGTGCATTCTCCGAGGAGGA
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 CTGTTTGACAGCAGACTCCTCGGGAGACTCTGAAGTTCTGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGTTTAA

Protein Sequence:

>RR203344 representing NM_022943
 Red=Cloning site Green=Tags(s)

MVLAPLLLGLLLL SALWNGGTAEKEEEIKPDQPFSGPLPGSLPADHRPFFAPHSSGDQLSPSQTGRSHPA
 HTATPQMTSAASNLLPPVAFKNTIGRIVLSEHKSVKFNCSINIPNVYQETAGISWWKDGKELLGAHHSIT
 QFYDDEEGVSIIALFSITSVQRSDNGSYICKMKVNDREVSDPIYVEVQGLPYFTKQPEVNVTRNTAFN
 LTCQAVGPPPEVNIFFWVQNSSRVNENPERSPSVLTAVGLTETAVFSCEAHNDKGLTVSKGVQINIKVIPS
 PPTEVHILNSTAHSILVSWVPGFDGYSPLQNCISIQVKEADQLSNGSVMVFNTSASPFLYEVQQLQALANY
 SVTVSCRNEIGWSAVSPWILASTTEGAPAVAPLNIITVFLNESSNNLEIRWTKPKPIKRDGELVGYRISHV
 WESAGTSKELSEEVSQNGSWAQVPVQMHNATCTVRIAVITKGGIGPFSEPVDAIPEHSRVDYAPSSTPA
 PGNTESMLIILGCFVLMGLILYL SLAIKRRVQETKFGGAFSEEDSQLVVNYRAKKSFCRRAIELTLQ
 SLGVSEELQNKLEDVVVDRNLLILGKVLGEGEFGSVMENLQEDGTSQKVAVKTMKLDNFSLREIEEFL
 SEAACMKDFNHPNVIRLLGVCIELSSQGIKPKMVILPFMKYGDHLHTFLLYSRIESVPKSIPLQTLKFMV
 DIAQGMAYLSSRNFLHRDLAARNMLRDDMTVCVADFGLSKKIYSGDYRQGRIAKMPVKWIAIESLADR
 VYTSKSDVWAFVGMWEIATRGMPYPGVQNHMYDYLLHGHRLKQPEDCLDDL YEIMYSWCSADPLDRP
 TFSVLRQLLEKLSLSELPDAQDKESIIYINTQLLESCEGLANRSSLAGLDMNIDPDSIIASCTAGAAYSV
 MAEVHENNLHEERYILNGGNEEWEDVASTPFATVTAGKDGVLPEPDLTKNGISWSHHSTLPLGSPSPDEL
 LFADDSSGDSEVLM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

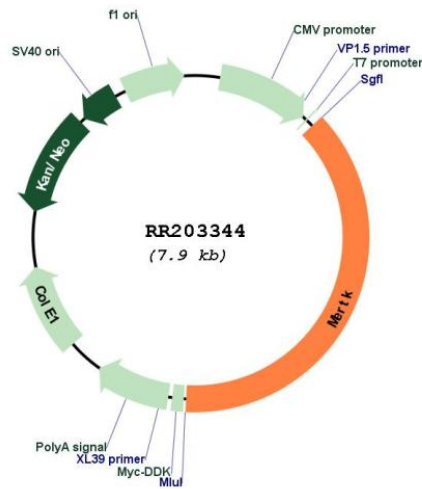
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_022943
ORF Size: 2982 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_022943.1 , NP_075232.1
RefSeq Size:	3024 bp
RefSeq ORF:	2985 bp
Locus ID:	65037
UniProt ID:	P57097
Cytogenetics:	3q36
MW:	109.4 kDa
Gene Summary:	receptor tyrosine kinase; involved in the phagocytoses of the shed outer segments by retinal pigment epithelial (RPE) cells [RGD, Feb 2006]