

Product datasheet for **RR210714**

Rag1 (NM_053468) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rag1 (NM_053468) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rag1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210714 representing NM_053468 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCTGTCCCCTTGCCATCTACCTGAGACTCAGTTCTGCACCTGATGAAATTCAGCACCCGCACATCA
AATTTTCCGAGTGAAAATTAAGCTGTTTAGGGTGAGATCCTTTGAAAAGGCACCCGAAGAAGCACAAAA
AGAGAAGGATTCCTCAGAAGGAAACCTTGTCTCGAGCAGTCTCCAGTAGTTCTAGATAAGCCTGGGGGT
CAGAAATTCAGTTCTGACTCAACGAGCATTGAAACTCCATCCTAAATTTTCAAAGAAATTCATGTTGATG
GGAAGTCAAGCGACAAAGCAATTCACCAAGCCAGGCTTAGACACTTCTGCCGCATCTGTGCAATCACTT
CAAGAGTGACGGGCACAACCGAGATACCCAGTCCACGGGCCCGTGGACGCTAAAACCTCAAAGCCTTTTC
CGAAAGAAGGAAAAAGAGTCACGTCTGGCCAGATCTCATTGCCAGAGTTTTCCGGATTGATGTGAAGT
CAGATGTTGACTCCATCCACCCACTGAATTCTGCCATAACTGTTGGAGCATTATGCACAGGAAGTTCGG
CAGTGCTCACAGTCAGGCTACTGCCAAGGAATGTGACCGTGGAGTGGACCCCCACACCCGTCCTGT
GACATCTGCTTTACTGCCATCGGGGACTGAAGAGGAAGAGACATCAGCCCAACGTCAGCTCAGCAAGA
AACTAAAACCTGTGCTCAACCATGCTAGACGGGACCGTCGAAGAGAAGTCAAGGCTAGGGTCAGCAGCAA
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CAAGCCACAAAGAATCTAAAGAGACTTTGGTGCATATTAATAAAGGGGGCCGGCTCGCCAGCATCTCT
GTCAGTACCGGAAGGGCTCAGAAACATCGGCTGAGGGAGCTCAAGATTCAGTCAAAGAATTTGCAGAC
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ACCACCCCTTTGAGTGGCAGCCCTCTGAAGAAGTGTCTCCAGAAGTACGTTGGAATTATTGATGG
GCTCTGACTTGCTCTCCGTAGATGAATACCCAGTGGACACAATTGCAAAGAGTTCGCTATGAC



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TCTGCTTTGGTGTCTGCTTTGATGGACATGGAGGAAGACATCTTGGACGGCATGAGATCCCAAGATCTTG
 ATGACTACGTGAGTGGTCCCTTACCCTGGTGGTAAAGGAATCGTGTGATGGAATGGGGGATGTGAGTGA
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 TTCAACTCACAGGTTTCTGCTGAGCTCCTCCACCAAGTCAAATACAGATACGAGGGCAAAATACCA
 ATTAATTTACAAAACCTTGGCACACGTCCTGAAATTATTGAAAGGGATGGCTCTATTGGGGCATGGGC
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 ATGCCATAATGCATTA AAAA AACTCTGGGTTTACCATGAACTCAAAGGAGACTTTAGGGGACTCTTTGGA
 CATTGAGGACTCTCTGAAAGCCAAGATTCAATGGAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210714 representing NM_053468
 Red=Cloning site Green=Tags(s)

MAVPLPSTLRLSSAPDEIQHPHIKFSWKFKLFRVRSFEKAPEEAQKEKDSSEKPCLEQSPVVLDPKPGG
 QNSVLTQRALKLHPKFSKFFHVDGKSSDKAIHQARLRHFRCICGNHFKSDGHNRRYPVHGPPVDAKTQSLF
 RKKEKRVTSWPDLIARVFRIDVKSVDVSIHPTEFCHNCWSIMHRKFGSAHSQVYCPRNVTVEWHPHTPSC
 DICFTAHRGLKRRHQPNVQLSKKLKTVLNHARRDRRRTQARVSSKEVMKKISNCSKIHLSTKLLAVDF
 PAHFVKSISQICEHILADPVETTCKHLFCRICILRCLKVMGSYCPSCRYPCFPTDLQSPVKSFLSILNS
 LMVKCPAQECNEEVSLKYNHHVSSHESKETLVHINKGGRPRQHLLSLTRRAQKHLRELKIQVKEFAD
 KEEGGDVKSVCLTLFLLALRARNEHRQADELEAIMQGRGSLQPAVCLAIRVNTFLSCSQYHKMYRTVKA
 ITGRQIFQPLHALRNAEKVLLPGYHPFEWQPPLKNVSSRTDVGIIDGLSGLASSVDEYPVDITAKRFRYD
 SALVSALMDEEDILDGMRSDLDYVSGPFTVVVKESCDGMGDVSEKHGSGPAVPEKAVRFSTVMRVT
 VEHGSQNVKIFEEPKNSELCKPLCLMLADESDHETLTAILSPLAEREAMKSELLLLMGGIPRTFKF
 IFRGTGYDEKLVREVEGLEASGSVYICTLCDATRLEASQNLVFHSITRSHAENLQRYEVWRSNPYHESVE
 ELRDRVKVSAKPFIEETVPSIDALHCDIGNAAEFYKIFQLEIGEYKPNPASKERKRWQATLDKHLRKR
 MNLKPIMRMNGNFARKLMTQETVDVAVCELIPSEERHEALREMDLYLKMKPVWRSSCPAKECPESLQCYS
 FNSQRFALLSTKFKYRYEGKITNYFHKTLAHVPEIIERDGSIGAWASEGNEGKLFRRFRKMNAQSK
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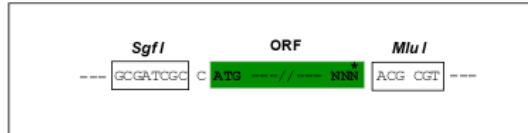
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

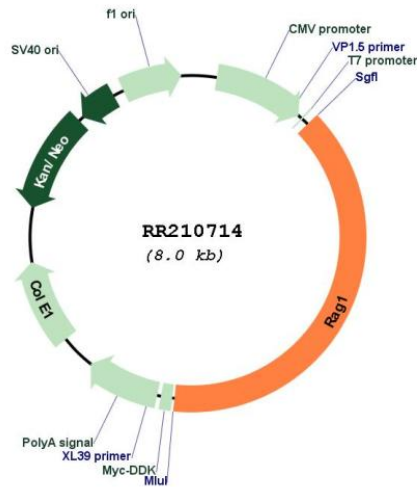
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_053468

ORF Size: 3120 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_053468.1 , NP_445920.1
RefSeq Size:	6537 bp
RefSeq ORF:	3123 bp
Locus ID:	84600
Cytogenetics:	3q31
MW:	119.1 kDa
Gene Summary:	expressed in intestinal intraepithelial T lymphocytes [RGD, Feb 2006]