

Product datasheet for **RR214579**

LOC680663 (NM_001127377) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOC680663 (NM_001127377) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LOC680663
Synonyms:	MGC188110; Radx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR214579 representing NM_001127377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGGTGAGTCGGATCAGCCTCAGCCAGGACCTCACACGCTGGTCTCTACTTGGAGCACCGCGAAA
 GAGATCAGGCTGGGGTCCCAGGAGGAGTGATCCGAAGAGCTGGTAGCCAAAGGCACAGGTCTGGATCCA
 AACTGTTATTGAGCAAATAACTGGCTCCCTAGACAGTGTTACCTCTCGGAAGTGGTACCTGTCTCT
 GTGCTGGCCGTCCAAAGATACCTTTAGAGGATGAGCCACGGGATACAGTGCCCAAGCCTCCCTTTACT
 GCTATGATGTGACAATCTCAGACGGGTGTACCAGGAGAAGTGCTACTTAGACCCAGCTTAAACTTTCT
 CGTTTATCAGAATATTCTTAAAGTTGGCATAGAAATGAGAATTTCCAGAGTCTCGTGCCTTTACAATGAG
 AAAAGATTGGGCCAGGGATCCTGTGCATAGATAAGGTCCACTGTGGGGAGCCCTAGATGTCATTTCTG
 TAGAACTCCATTAGAAACAGAGCCCATGAAGAAAAGCCAGAGCGCCTCTAAGAGGGAGCAAGAGTCA
 TTACCTGGCTCTATGGAATAACGAAGATCCATACGGAGATATATGGAAGACCAACAAGCAACCTGAGGAG
 TTCAATTTTAAACAACACCAAAATAATCTCTCTCTCATCTTGAAATGACCTGGCATAACAGAAAAAATT
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 GATTGAGCCATATCAGACCTATTTGGAGGTTGCTGACAGTTCAGGCATGGTGTCACTGATTATGTGGAAT
 GCTTTGTGTCCAGAGTGGTATAAAAGTTTGAGAGTGGGCTTGATTCTTCTGCTTCAAGATTATTCTGTGA
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 AGACTTTTGGTCCTACCGCTGGATTACATCACTGACGGGACTTCAGAGCAACCATTTCATAGTGCAGCTG
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 ACGAAGACTAATTTGGAAGCAAAGAACTGTTATTGGTGGATATTACCCCTACCCACAGTTCCAGAGA
 CATTTTCCAAGTATAGTCGCTTTATTAAGCTGAGTCACTCTTGACAACAATAAGTGAAGTGAGGAAGGT
 GATTGAAGACTTGCAGTACAGGGAACAAAAGCGCATTGCAATTCAGGGGATAATTACTGCTATAAGTAC
 ATCCCCTATAACCACTCAGCAAAAAGTGCCCCAGCATCAGAAACACTTCAGAACGCTAGTCCACCCTCAA
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 TATACTCCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214579 representing NM_001127377
Red=Cloning site Green=Tags(s)

MSGESDQPQPGPSHAGLYLEHRERDQAGVPGGVIIRAGSQRRHSWIQTVEITGSPRQCCTLSEVVPVS
VLAVQRYLLEDEPRDTPKPLCYDVTISDGVYQEKCYLDPSLNFVYQNLKVGIEMRISRVSCLYNE
KRLGGQILCIDKVHCGEPLDVISVETPFRNRAHEEKPERPLRGSKSHYLALWNNEDPYGDIWTKNQPEE
FNFNNTKIISLSHLEMTWHNRKNFPALLVRILHKSRLRYGKPNKKMIEPYQTYLEVADSSGMVSVIMWN
ALCPEWYKSLRVGLILLQDYSVKKSYPLRIQPDVPDQMKLISTMEICLNLRDPTNIVIIPEKQLKSE
WKLPLKLNRFITRSELDMPENSICDVIGMLSFVGRVQRSKKKENSEDFWSYRWIHITDGTSEQPFIVQL
FSTSQPEVFENIYPMTYFVCTQLKVVNRNSQVPKLLYLTTTNRSLVITGHRGQPYTYDTKAKKIIQWIK
TKTNLEAKNTVIGGYYPYPVPETFSKYSRFKAESLLTTISEVRKVIEDLQYREQKRIAIQGIITAIKY
IPYNHSAKSAPASETLQNASPPSTSQAAAKEGHYHERGSKRSQDDRPMDSLPMVLSLCAKRKILQGPTAN
PVPVPQPHSSAQMGKNPNIPSRENSTANATGSKRIINDRWESQLWRDKKFSLRDLHYGHVDPESIPR
KFILGHEKFLTQQFNSQPAKYVPPGKPKLDEFQSARSLGHFEVTILGLNHEIAIDVAFLPMYSPEDVE
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YTP

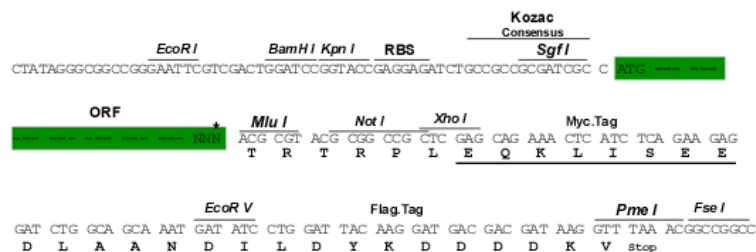
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:

SgfI-MluI

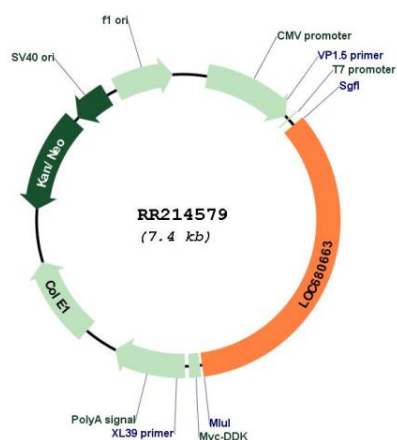
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001127377
ORF Size:	2532 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_001127377.1 , NP_001120849.1
RefSeq Size:	3867 bp
RefSeq ORF:	2535 bp
Locus ID:	680663
UniProt ID:	B2GV47
Cytogenetics:	Xq32
MW:	96.3 kDa
Gene Summary:	Single-stranded DNA-binding protein recruited to replication forks to maintain genome stability. Prevents fork collapse by antagonizing the accumulation of RAD51 at forks to ensure the proper balance of fork remodeling and protection without interfering with the capacity of cells to complete homologous recombination of double-strand breaks.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214579