

## Product datasheet for RR211470

### Ring1 (NM\_212549) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ring1 (NM_212549) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ring1
Synonyms:	Ring1A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211470 representing NM_212549 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACGACGCCGGCAATGCACAGAATGCCAGCAAAACGTGGAACTGAGTCTCTATGAGCTGCACCGGA  
CCCCGAGGAAGCCATCATGGACGGGACGGAGATTGCTGTTTCGCCCCGGTCACTGCATTCGGAGCTCAT  
GTGCCCATCTGCCTGGACATGCTGAAAAACACAATGACCACCAAGGAATGCTTGCACAGTTCTGCTCG  
GACTGCATCGTCACTGCCCTGCGGAGCGGGAACAAAGAGTGCCCCACCTGCCGAAAAAGCTGGTATCCA  
AGCGGTCCCTACGGCCCGACCCCAACTCGACGCCTGATCTCCAAAATCTATCCTAGCCGGGAGGAGTA  
CGAGGCCCATCAAGACCGGGTGCTCATCCGCCTCAGCCGCCTGCACAACCAGCAGGCGCTGAGCTCCAGT  
ATCGAGGAGGGGCTTCGGATGCAGGCCATGCACAGGGCCAGCGTGTGAGGCGGCCGATGCCAGGATCTG  
ATCAGACCACCACAATGAGTGGGGGGAAGGAGAGCCTGGGGAGGGAGAAGGGATGGGGAGGACATAAG  
CTCCGACTCCGCCCCAGACTCTGCTCCGGGCCCGCTCCCAAGCGACCCCGTGGAGGGGTGCAGGGGGC  
AGCAGTGTAGGGACAGGGGGTGGTGTGCTGTTGGGGCTTGCGGGGTGTGTTCTGAAGACTCTGGTG  
ATCGGGGCGGCACCCTGGGAGGGGAACCCTAGCCCCCAAGCCCTCCTGGGGCTCCAGTCCCTCAGA  
GCCAGGTGGAGAGATCGAGCTTGTGTTCCGGCCCATCCCTGCTTGTGGAGAAAGGAGAATACTGCCAG  
ACTAGGTATGTGAAGACTACTGGGAATGCCACAGTGGATCACCTCTCAAGTACTTGGCCCTGCGCATTG  
CCCTGGAGAGGAGGCAGCAGCAGGAAACCGTAGAGCCCGAGGGCCTGGCGGGGTGCCTCGGACACAGG  
CGGACCTGACGGGGTGGTGGGGAGAGAGGGTTTCTGGAGGAGGCGAAGGTCTGAGGAGCCTGCCCTG  
CCCAGCCTGGAAGGTGTCAGCGAAAAACAGTACACCATCTACATAGCTCCTGGGGCGGAGCATTACGA  
CGCTGAATGGCTCCCTGACCTTGGAGCTTGTGAACGAGAAGTTCTGGAAGTCTCCAGGCCGTTAGAGCT  
ATGCTATGCCCGACGAAGGACCCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR211470 representing NM\_212549  
Red=Cloning site Green=Tags(s)

MTTPANAQNASKTWELSLYELHRTPEAIMDGTEIAVSPRSLHSELMCPICLDMLKNTMTTKECLHRFCS  
 DCIVTALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSREEYEAHQDRVLIRLRLHNQQALSSS  
 IEEGLRMQAMHRAQRVRRPMPGSDQTTTMSGGEGEPGEDISSDSAPDSAPGPAPKRPRGGGAGG  
 SSVGTGGGAAGGACGGAGSEDSGDRGGTLGGGTLGPPSPPGAPSPPEPGGEIELVFRPHPLLVEKGEYCQ  
 TRYVKTTGNATVDHL SKYLALRIALERRQQQETVEPGGPGGASDTGGPDGGGGERGVSGGEGPEEPAL  
 PSLEGVSEKQYTIYIAPGGGAFTTLNGLSLTLELVNEKFWKVRPLELCYAPT KDPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

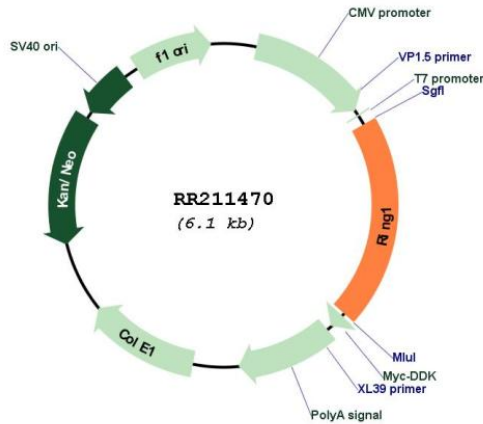
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_212549

<b>ORF Size:</b>	1218 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_212549.2</a> , <a href="#">NP_997714.2</a>
<b>RefSeq Size:</b>	1741 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	309626
<b>UniProt ID:</b>	<a href="#">Q6MGB6</a>
<b>Cytogenetics:</b>	20p12
<b>MW:</b>	42.7 kDa
<b>Gene Summary:</b>	maps within the major histocompatibility complex RT1 region [RGD, Feb 2006]