

## Product datasheet for **MC222068**

### **D330045A20Rik (NM\_175326) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	D330045A20Rik (NM_175326) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	D330045A20Rik
Synonyms:	A1132325; Radx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222068 representing NM\_175326  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTCGGGTGAGTCGGGTACGCTCAGCCGGGACCTCGCACGCTGGTCTCTACTTGGAGCACCCCGAAA  
GGGATCAGGCTGGGGTCCAGGTGGAGTGATACGAAGAGCTGATAGCCAGAGGCGCAGGTCTGGATCCA  
AAAGGTTATTGAGCAAATAACAGGTTCCCTAGACAGTGTGTACCCTCTCGAAAGTGGTGCCTGTCACT  
GTACTGGCTGTCCAAAGATACCTTTAGAGGATGAGCCACGGGATACAGTGCCCAAGCCTCCCTTTACT  
GCTATGATGTGACAATCTCAGACGGGTGTACCAGGAGAAGTGCTACTTAGACCCAGCTTAAACTTTCT  
CGTTTATCAAATATTCTTAAAGTTGGCATAGAGATGAGAATTTCCAGAGTCTCGTGCCTTTACAACGAG  
AAAAGATTGGGCCAGGAATCCTGTGCATAGATAAGGTCCACTGTGGGAGTCCCTAGATGTCATTTCTG  
TAGAACTCCATTTAGAAACAGAGCGCATGAGGAAAAGCCAGAGAGGCCCTTAAGAGGGGCAAGAGTCA  
CTACCTGGCTCTGTGGAATAACGAAGATCCGTACGGAGATATTTGGAAGCAACAAGCAACCTGAGGAA  
TTCAATTTTAAACAACATCAAATAATCTCTCTCTCATCTTGAGTTGACTTGGAAATAGCAGAAAAGAATT  
TTCTGCCTTGCTTGAAGAGTCTGCATAAATCAAACCTGCGTACTATGGAAAACCTAATAAAAAAGAT  
GATTGAGCCATATCAGACCTATTTGGAGGTTGCTGACAGCTCGGGCATGGTGTCACTGATTCTGTGGAA  
GCTCTGTGTCCAGAGTGGTATAAAAAGTTGAGAGTGGGCTTGGTCTTCTGCTTCAAGATTATACTGTGA  
AGAAGAGCTATCCATTAAGAATCCAGCCTGACCCTGCAGATCCACAGATGAAACTCATTTCTACTATGGA  
AATTTGCCTGAATCTTCGAGATCCCAACTAACATAGTTATCATTCCAGAAAAGCAATTGAAATCAGAA  
TGGAAATTGCCAAAATAATTAACCGATTCATCACAAGATCAGAACTAGACGATATGCCAGAAAAAGCA  
TCTGTGATGTAATTGGTTTGTATCCTTTGTAGGGAGGGTGAACGGTCAAAGAAGAAAGAACAGTGA  
AGACTTTTGGTGCATACCGCTGGATTCACATCACTGATGGGACTTACAGCAACCATTCATAGTGCAGCTG  
TTCTCCACATCGCAGCCAGAAGTCTTTGAAAATATTTACCAATGACATATTTTGTGTGCACCCAGTTGA  
AAGTCGTAGAAAATAACAGCCAAGTACCTAAGCTGCTTTATCTTACCACTACAAATGAAAGCAGAGCACT  
TACTACTGGAGGGCATAGAGGCTGCCATATACATACGATACCAAGGCAAAAAAATTTTCACTGGGATT  
AAAACGAAGACTAATTTGGAAGCAAAGAACACGGTTATTGGTGGATATTACCCCTATCCACCAGTCCAG  
AGACATTTTCCAAGTACAGTCGCTTTATTAAGCTGAGTCACTCTTGACAACAATAAGTGAAGTAAAGAA  
GGTGATTGAAGACTTGCAGTATAGGGAACAAAAGCGCATTGCAATTGAGGGGATAATTACTGCTATAAG  
TACATCCCTATAAGCACTCAGCCGGAAGTCCCCAGCACCAGAAGCATTCTGGAATGCTAGCCGTCCT  
CAACATCTCAAGCAGCTGGGAAAGAAGTCAATTGTCATGAACGAGGTAGTAAAAGTCCCAAGATGACAG  
ACCAATGGGGTCTCAGCATTTTCAATATACCTCCAAGTTTTGAGTCTCTGTGCAAAAAAGAAAAATCTT  
CAAGGCCCAAGTCTAATCCGGTTCCTGTTCTCAGCCGCATTCTTCTGCACAGATGAAAGGAAGCAAAC  
ACAACACACCAAGTCAAGAAAGTTCAACTGCTTATACCACAGGGAAGTCCAGAAGATCACAATGATCG  
ATGGGAGAGTCAGCTGTGGCAAGATAAGAAGTTTAGCTTGAGAGACCACCTACATTATGGTCACGTGGAT  
CCTGAAAGTATTCACGGAAATTTATTTGGAGCATGAAAAGTTTCTCACTCAGCAGTTAATTCTCAGC  
CTGCAAAATACATACCACAGAAGGAAAGCCCCAAACTTGATGAATTTAGAGCGCCCGAAGCCTTGG  
ACATTTTGAAGTAACCATCCTAGGTTTGAACCATGAGATTGCGATCGATGTTGCATTTCTACCTATGAT  
TCTCCAGAAGATGTTCAAGCATCGCAAATAGATACATTTTTGACTTGCATGAATTTAGCTGTGTATC  
CACCAGCAGCACCTCTCAGTGAAGGTTGCCAGATCCCAAGCAGTTGCAGGTGATATTGTAAGGCAGC  
AGCTGACCTGGATAGAGTCCACATCATTGGTATCTGGATATCTGTAATTTGGGTAACAATAAAGTGGAA  
GTCTGTTTGCAGAAAATTTATACTCCAGAA**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
ACCN: NM\_175326  
Insert Size: 2553 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_175326.5</a> , <a href="#">NP_780535.1</a>
<b>RefSeq Size:</b>	3738 bp
<b>RefSeq ORF:</b>	2553 bp
<b>Locus ID:</b>	102871
<b>UniProt ID:</b>	<a href="#">Q8C779</a>
<b>Cytogenetics:</b>	X F1
<b>Gene Summary:</b>	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]