

## Product datasheet for **MR211279**

### **Xrn2 (NM\_011917) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xrn2 (NM_011917) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xrn2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR211279 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAGTCCCGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATTGTCAACTGCGTGGAGG  
 AGAAGCCAAAAGAATGCACGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA  
 GTTTGATAATCTGTATTTGGATATGAATGGGATCATCCACCCCTGCACTCATCCTGAAGACAAACCAGCA  
 CCAAAAAATGAAGATGAAATGATGGTTGCAATTTTGGAGTACATTGACAGACTTTTCAATATTGTAAGAC  
 CAAGAAGACTTCTACATGGCAATAGATGGGGTGGCACCACGTGCAAAAATGAATCAGCAGCGTTCAAG  
 GAGGTTGAGAGCATCAAAGGAAGGAATGGAAGCAGCAGTTGAGAAGCAGCGAGTCAGAGAGGAAATACTT  
 GCAAAAGTGGCTTTCTCCTCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACCCAGGAA  
 CTGAGTTCATGGACAATCTTCTAAATGCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCTGG  
 GTGAAAAATTTGACAGTTATATTATCTGATGCTAGTGCACCTGGTGAAGGAGAACAACAAATCATGGAT  
 TACATTAGAAGACAAAGAGCCAGCCTAACCATGACCCAAATACTCATCATTGTTTGTGTGGAGCTGATG  
 CTGATCTAATTATGCTTGGTCTTGTACACATGAACCTAACTTACCATAATCAGAGAAGAATTCAAACC  
 AAATAAACCTAAACCATGTGCTCTTTGTAATCAGTTTGGACACGAGGTCAAGGATTGTGAAGTTTGCCA  
 AGAGAAAAGAAGGGAAAGCATGATGAACTTGCAGATAGTCTTCTGTGCAGAAGGGGAGTTTATCTTCC  
 TTCGGCTGAATGTCCTTCGAGAGTATCTGGAAAGAGAACTCCCATGGCCAGCTTACCATTCCCATTGGA  
 TGTGGAGAGGAGCATTGATGACTGGGTGTTGATGCTTCTTGTGGGAATGATTTCTTCCCTCACTTG  
 CCATCACTAGAGATTAGGAAGGTGCAATTGATCGTTTGGTTAACATATACAAAAACGTGGTACACAAAA  
 CTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG  
 TGAAGTTGAGGATAGCATTTTTTAAAAAGAGAAAAGATGATGAGGACAGTTTTAGAAAGACGACAGAAAGAA  
 AAAAGAAAGAGGATGAAGAGAGATCAACCAGCTTTTACTCCTAGTGAATATTAACACCTCATGCCTTGG  
 GTTCAAGAAATTCACCAGGTTGTCAAGTAGCCAGTAATCCAAGACAAGCAGCCTATGAAATGAGGATGCA  
 GAGAACTCTAGTCCTTCAATATCTCCTAATAAAGTTTTGCATCTGATGGCTCCCATCTCCACTAGGA  
 GGAATTAAGAGAAAAGCAGAAGACAGTACAGTACAGTACAGCCAGAGCCAGAGGATAACGTCAGGTTATGGGAAG  
 CTGTTTGAAGCAACGATACTACAAGAACAATTTGATGTAGATGCAGCTGATGAGAAATTCGACGTAA  
 GGTGTTTCAGTCCTACGTTGAAGGACTGTGCTGGGTTCTTCGCTATTATTACCAGGGCTGTGCTTCTGG  
 AAGTGGTATTATCCATTCCATTATGCACCATTTGCCTCAGACTTTGAAGGTATTGCAGACATGTCCTCTG  
 AATTTGAAAAGGGCACAACACCGTTTAAGCCACTGGAACAATAATGGGGTTTTCCAGCTGCAAGTGG  
 TAACTTTCTACCTCCAACATGGCGGAAGCTCATGAGTGACCTGATTCCAGTATAATTGACTTCTATCCT  
 GAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGTTGCTCTATTGCCATTTGTGG  
 ATGAGCGAAGGCTGCGAGCGGCTCTAGAAGAGGTGTACCCAGACCTCACTCCAGAAGAGAACAGGAGAAA  
 TAGTCTTGGAGGTGATGTTTTGTTTGGGGAAAACCTTCACTACCGGACTTCATTTTAGAGCTGAT  
 CAGACGGGTTCCACAGAGCCAGTTGATGTGCCACCTGAATTGTGTACGGGATTCAGGGACGTTTTCTT  
 TGGATGAAGAAGCCATTCTTCCAGACCAACAGTATGTTCCCCTGTGCCATGTTGCGGGACCTGACACA  
 GAACACTGCAGTCAGTATTAATTTTAAAGATCCACAGTTTGTGTAAGATTATGTTTTTAAAGCTGCAATG  
 CTCCAGGAGCAAGAAAGCCAGCAACAGTTCTGAAACCTGGTACTGGGAAAAATCCAGCAATGGGCGGC  
 AATGGAACCTCAGCTTGGCTTTAACCGGACCGGCGCCTGTTACCTGGACCAGGCAGCCTTTAGAAC  
 TTTAGGCCATGTTACACCAAGAGGCTCGGGACGAGTGTATACGAACACTGCACTACCACCTGCCAAT  
 TACCAGGGGAACAATTACAGGCCACTGCTGAGAGGTCAAGCTCAGATCCCAAACTTATGTCAAATATGA  
 GGCCCAAGATTCCTGGCAGGCCCTCCTCCTTTTCCAGCAGCATAGATTTGAGAGAAGTGTGGAGC  
 TGAACCTCTACTGCCATGGAACCGGATGATCCAAAACCAAAATGCAGCCTTTAGCCAAATCAGTACCAG  
 ATGCTAGGAGGACCTGGAGGCTATCCACCAGACGTGACGATCACCGAGGAGGAGACAGGGATATCCCA  
 GAGAAGGACGGAATACCCTTTGCCACCACCTCGGGAAGATACAGTTGGAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

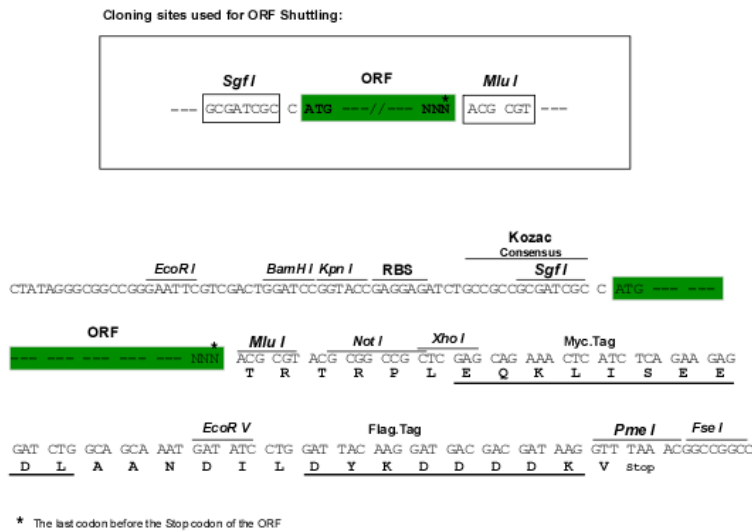
Protein Sequence: >MR211279 protein sequence  
 Red=Cloning site Green=Tags(s)

MGVPAFFRWLSRKYPSSIIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPA  
 PKNEDEMMVAIFEYIDRLFNIIVRPRRLLYMAIDGVAPRAKMNQSRFRFRASKEGMEAAVEKQRVREIIL  
 AKGGFLPPEEIKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMD  
 YIRRQRAQPNHDPNTHHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCALCNQFGHEVKDCEGLP  
 REKKGKHDELADSLPCAEGEFIFLRLNVLREYLERELTMASLPFFDVERSIDDWVFMCFVGNDFLPHL  
 PSLEIREGAIDRLVNIYKNVVHKTGGYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKKDDSDSFRRRQKE  
 KRKRMRDQPAFTPSGILTPHALGSRNSPGCQVASNPRQAAYEMRMQRNSSPSISPNTSFASDGSPSPLG  
 GIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKFDVDADEKFRKRVVQSYVEGLCWVLRYYYQGCASW  
 KWYYPFHYPFASDFEGIADMSSEFEKGTKPKPLEQLMGVFPAAAGNLPPTWRKLMSPDSSIIDFYF  
 EDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPEENRRNSLGGDVL FVGLKHLPLRDF ILELY  
 QTGSTPEVDVPELCHGIQGTFSLDEEAILPDQTVCSVPMLRDLTQNTAVSINFKDPQFAEDYVFKAAM  
 LPGARKPATVLPKGDWEKSSNGRQWKPKLGFNRDRRPVHLDQAAFRTLGHVTPRGSSTSVYTNTALPPAN  
 YQGNNYRPLL R GQAQIPKLMNMRPQDSWRGPPPLFQQHRFERSVGAEP LLPWNRM IQNQNAAFQPNQYQ  
 MLGGPGGYPPRRDDHRGGRQGYPREGRKYPLPPPSGRYSWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

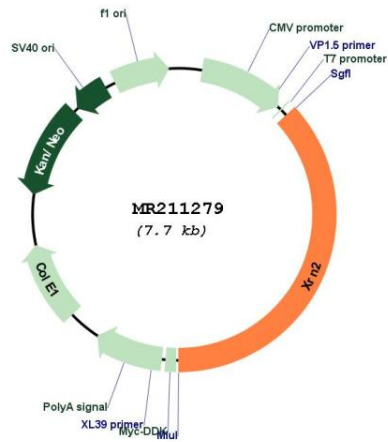
Cloning Scheme:



ACCN: NM\_011917

<b>ORF Size:</b>	2856 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_011917.3</a>
<b>RefSeq Size:</b>	3383 bp
<b>RefSeq ORF:</b>	2856 bp
<b>Locus ID:</b>	24128
<b>UniProt ID:</b>	<a href="#">Q9DBR1</a>
<b>Cytogenetics:</b>	2 G2
<b>MW:</b>	108.7 kDa
<b>Gene Summary:</b>	Possesses 5'->3' exoribonuclease activity. May promote the termination of transcription by RNA polymerase II. During transcription termination, cleavage at the polyadenylation site liberates a 5' fragment which is subsequently processed to form the mature mRNA and a 3' fragment which remains attached to the elongating polymerase. The processive degradation of this 3' fragment by this protein may promote termination of transcription. Binds to RNA polymerase II (RNAP II) transcription termination R-loops formed by G-rich pause sites (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211279