

## Product datasheet for MR221074

### Xrn1 (NM\_011916) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xrn1 (NM_011916) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xrn1
Synonyms:	Dhm2; exo; mXrn1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221074 representing NM_011916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGTCCCCAAGTTTTACCGATGGATCTCGGAGCGGTACCCCTGCCTCAGCGAAGTGGTGAAGGAGC  
ATCAGATCCAGAATTTGATAACTGTACCTGGATATGAATGGGATTATACATCAGTGTCCCATCTAA  
TGATGATGATGTTCACTTCAGAATTCAGATGACAAAACTTTACTGACATTTTTACTACTTGGAGGTG  
TTGTTTCGAATTATTAACCTAGGAAAGTGTCTTTATGGCTGTTGACGGTGTGGCTCCTCGAGCAAAA  
TGAACCAGCAACGCGGGAGGCGTTTTAGGTCAGCCAAGGAGGCAGAAGACAAAATTA AAAAAGCAATAGA  
AAAGGGAGAAACACTTCCCTACAGAAGCCAGATTGATTCCAAGTATTACGCCAGGGACTGAATTCATG  
GCCAGATTGCATGAACATCTGAAGTATTTGTAATATGAAAATTTCCACAGACAAATCATGGCAAGGTG  
TTACCATCTACTTCTCAGGCCATGAGACTCCTGGAGAAGGAGAGCATAAAATCATGGAAATTTATCAGATC  
CGAGAAAGCAAAGCCAGATCATGATCCAAACACCAGACATTGTCTTTATGGCTTAGATGCTGACTTGATC  
ATGCTTGGATTAACAAGTCACGAGGCACATTTTCTCTTAAGAGAAGAAGTTCGGTTTTGGTGGAAAAA  
AAACACAAAGGTATGTGCACCAGAAGAAACGACATTTACCTCTACACTTGTCTTTAATGAGAGAGTA  
TATTGATTATGAATTTTCAGCATTAAAGGAAAAGATCACATTTAAATATGATATTGAAAAAATTATAGAT  
GATTGGATTTTGATGGGATTTCTTGTGGCAATGATTTTATCCCTCATCTACCTCATTACATATTAATC  
ATGATGCGCTGCCTCTCTTTATGGAACATATATTGCTATCCTGCCAGAAGTGGAGGTTATATTAATGA  
AAGTGGACATCTCAACTTACCTCGATTTGAGAGATACCTGTGAAACTATCAGATTTTGATCGAGAACAC  
TTCAGTGAAGTTTTGTGGACCTCAAGTGGTTTAAAAGCAAAGTGGTAACAAGTATCTCAATGAGGCAG  
CAGGTGCAGCAGCAGAAGAGGCAAAGAAGTCAAGGAGAAGAGAAAACCGAAGGGTCAGGAAAATCTTT  
AAGTTGGGCTGCATTAGACAAAAGTGAAGGTGAAGGAGTAGCTTCTAGAGATAATTTTGAGGATGAGACT  
GAAGATGATGATCTGTTTAAAAGTGAATTTAGACAATAAAGAGAACATACTACATGACGAAGATGGGCC  
TCGATGTAGTATCTGATGAGTTTCTGGTAATCAGGCTGCCTGTTATGTTGAGGCTATACAGTGGATCTT  
ACACTATTACTATCATGGAGTCCAGTCTGGAGCTGGTACTATCCCTATCATTACGCACCCTTCTATCT



[View online »](#)

GATATCCGCAGTATCAGTACACTCAAATCCATTTTGAACCTCGGAAAACCTTCAAGCCATTCGAGCAGC  
TGCTTGCTGACTTCCATCGGCTAGTAAAAATTTGCTTCTACATGCTACCAGCATTGATGACCAGTGA  
AGACTCGCAATTATAGAATATTATCCACCTGATTTCAAACCTGATCTAAATGGGAAACAACAGGAATGG  
GAAGCTGTGGTATTAATACCGTTTATTGATGAGACGCGATTATTGGAAGCCATGGAGACATGTAACCACT  
CCCTCAAAAAGAAGAGAGGAAAAGAAACCAGCACAGTGAAGTGCCTGATGTGCTGGTATGACAGAGACAC  
AGAGTTACCTACTCCTCTCCATGGCCAGAAAAGTTCCCTGCCATAGAACGATGTTGTACAAGGTATAAA  
ATGATATCATTAGATGCTTGGCGGTAGACATAAACAAGAACAATAACCAGGGTTGACCAGAAGGCAT  
TATATTTCTGTGGATTCCCTACTTTGAAACACATCAAACATAAAATTTTTTTTGAAGAAAAGTGGTGTCA  
AGTATTCAGCAGAGTAGTCGTGGTGAAAACCTGATGTTGAAAATTTTCAAGTAAATGCAGAACCAGATGAA  
CTTAGGATAGAGAACATAGCTTTCGGCGGTGCTGGGAAAGGCAGTCTTTGTTAACTGGCCTCATCTTGAAG  
AAGCTAGAGTTGTGGCAGTATCAGATGGTAAAACCTAAGTTTTACATAGAAGAACCCTCAGGAACACAGAA  
GGTTTTATTGGGAAAACCTGCCACCCTAAAGTCACTCAACTTACAGATAAAGAACAATCGAACTGG  
ACTAAAGAAATACAAGGAATTTCAAGAACAATCTAAGAAGAAAGGGAATAATAAATGAAACATCTG  
CTGTTGTGATGCTCAGTTGCTCAGGGTCTGAAATATCAAATCAGTCAAGTGGTGAAGTTCGTCTAGA  
AAAACAGTGGTCAAAACAATTTCTCTTTTGTATCAAACCTATTGTTAAGGACATCCGAGCTTTTGAC  
TCTCGTTTCTCCAATATCAAGACATTGGATGACTTGTTCACCAGAGAACATAGGCTTTATGCTTGGAA  
CTCCTTATTATGGCTGCACTGGAGAAGTTCAGGATTCAGGAGACTTGATTACAGAAGGGAGAATTCGTGT  
GGTTTTGAGCATTCCATGTGAGCCAAATCTTGATGCTTTAATACAGAATCAGCATAAACTCTATAAAG  
TACAACCAGGATATGTGTTGGCCGGTGCCTTGGCGTGAGTGGATACCTTGTTCAGGTTTACAGGAA  
GTATTTTTATTGGAAGAGGATCTAGGAGAAACCCTCATGGAGACCATAAAGCAATGTGGGTTTAAATCT  
CAAATTCACAAGAAAAATGAGGAAGTCCCTGGCTATACAAGAAAGTGGGAAACGAGTGGATGACTCG  
TCGGCAGCAGAGCAGCTCCTCGCAGAGTACATAGAGAGACACCAGAAGTTCAGTTATATAGCAAAAA  
ACAGCCAAGAAGATGTATTCTATGAAGATGACATCTGGCCTGGAGAAAATGAGAACGGGCTGAGAAAGT  
TCAAGAAATTATTACTTGGCTAAAAGGACATCCTGTGACTCTGTCTCGGTCTTCTGTGACTGGCAC  
ATTCTGGATGCAGCCATTGTTGAAAAATTCGAGGAAGAAGTTGAGAAGTGAAGCAAGCAAGAAAGAGCAACA  
AGAAAGTCCGAGTAACAGTGAAGCCCCATTTGCTGTACAGACCCTTAGAGCAGCAGCATGGAGTCATTCC  
TGATCGGGATGCCGAGTTCGGCTCTTTGATCGCGTTGTGAACGTGAGAGAGAGCTTCTCCGTGCCAGTC  
GGCCTTCGAGGCACCGTCACTTGAATTAAGGGGCTAGCAGAGAAGCTGATGACTATTTGAAGTATTAT  
TTGATGAGGAATTTCCCGGAGGCTTAACAATAAGGTGCTCACCTGGTAGGGGATACCGACTGCCAACAG  
TGCTTGGTGAACCTTTCTCATGGGAGTCGGTGTGAAACTGGAACCAGAAGTTGACAGCCATTGTGAAA  
CCACAACCTTCTGTGAGTCACTGTAGTGCAGCTCCCTCCGGGCACTTGGGAGGCCTCAACCACTCTCCTC  
AGTCACCTTTTCTCCTACTCAGGTACCTACAAAAGGTGATGATGAATTTGCAACATTTGGCAATCTCT  
ACAGGGAGCTGGAAAAATTCAACTTGCAGCCGACAGTACAAGAGAAGGGTGCAGTTCTACCTCAAGAA  
ATAAGTCAAGTAACTGAAGGTCAATAATCTGGCTTTACTGACCACAGTGTGAGACATCAGCAGAGAAAAAC  
ATGACTCGCAACGAAAAATTAAGGAAGAATATAAAAGTCTAAAGCTGAGTGTGAGAGTCAAAAGTTGTC  
CAGTAAACAGACTTCTGGAGGGTCTGCCAGATGTAGTATTAACCTATTGAAGAGAATGAAAGTCCAGGA  
ACTTCAGAAGCCAGAAGTTGTAAGTACCCAAATGCAGTGCATAAGCCTCCCTCTGGGATTGAGA  
ACTTTTTAGCATCTTTGAATCTCTAAGGAGAATGAAGCACAGTACCTCATCATGGAGAGCCTCCAGA  
TGAGGCGGATTTGTCCCCGAGTCTTTGCTATGAAAGGAACACGGATGCTTAAAGAAATTTCTGAAAAAT  
GATAGCCCTGACACAAGAGACAGCAAGAATGATATGAAGAAATCTGATAATGAAGCCACTGTTTCTTCTA  
GAAGAGATGAGCGTGGAGTGTGACACATCCTAAGCCAAGTAAGAAGCTGACATGCCATATGAACAAGCC  
TCATGGGACTAACGAGTTCAAAATGTGGCATCGGTGGACAGTGTGTGTTGGCCAGGCCAGATGCCTCCT  
GTGTCCACACCAGTAACTGAACTTTCTCGAATTTGTTCCCTTGTGGAATGCCACAACCTGATTTCTCCT  
TTCTGCGAACAACACAGACAATGACAGTTTGTGAGTAAAATGTCTAATGGCTTACTGGTACATGGGCC  
ACAGTCCACTCTGAAAGTGAAGCAAGGAGAGAGCTGCTTTTTTGTCTTACAGCAACTGGGCTCCTTG  
GGTGTGAGTTTTCTTTGCTCCACCCATATTTACAAATATCCTCCTGCGGTACCCTGGAGCCGTCC  
CTCCTGTTTTTACCAACCTACTGCTAATAATAATGCCTTCATCGTCTCATCTTTGGCTCAGTGTGATG  
GAGACCACAGTCCAGTTGCTGGGAATGCCTTCCACTATCCTTCATATCCTGGAACCATGCCCTTGGCT  
GGAGGAGTGCCAGGCGGAGTGCACAGTCAATACCTCTGCAGTTACCAAAAAAGAGTTGCAAAACA  
GAAAGAATTTTGAAGATAAGGAGGCCAGAGTTCTCAGGCCACACCCTCAGACTAACAAGCCAGGGTCT  
TTCTGAAGCCACCAAAATGACTCCACAAGAAAGTCCACCAGCCTTTCATCATCTCTCAGGCTGCCAG  
CCCGTGTCTTCTCATGTTGAAACTGCCTCCCAAGGCCATGTTGGTCCCAACCAAGTGCAGGCCAAGCT

CCTCAAAAAGGAAGTCGAGAAAACCTGGCCGCTCAACTTCAGCGTTTCTAAACCTTCGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221074 representing NM\_011916  
Red=Cloning site Green=Tags(s)

MGVPKFYRWISERYPCLSEVVKEHQIPEFDNLYLDMNGIIHQCSHPNDDDVHFRISDDKIFTDIFHYLEV  
LFRIIKPRKVVFFMAVDGVAPRAKMNQQRGRRFRSAKEAEDKIKKAIKGETLPTEARFDSNCITPGTEFM  
ARLHEHLKYFVNMKISTDKSWQGVTIYFSGHETPGEHEHKIMEFIRSEKAKPDHPNTRHCLYGLDADLI  
MLGLTSHEAHFSLLREEVRFGGKKTQRVCAPEETTFHLLHLSLMREYIDYEFSAKKEKITFKYDIEKIID  
DWILMGFLVGNDFIPHLPHLHINHDLPLLYGTYIAILPELGGYINESGHLNLPFRERYLVKLSDFDREH  
FSEVFDLKWFEKVGKYLNEAAGAAEEAKNCKEKRPKGQENSLSWAALDKSEGEVASRDNFEDET  
EDDDLFEFTEFRQYKRTYYMTKMGVDVVSDEFLLANQAACYVQAIQWILHYYYHGVQSWSWYYPHYAPFLS  
DIRSISTLKIHFELGKPFKPFQQLLAVLPSASKNLLPTCYQHLMTSEDSPIIIEYPPDFKTDLNGKQEW  
EAVVLIPFIDETRLLEAMETCNHSLKKEERKRQHSECLMCWYDRDTEFTYSSPWPEKFPPIERCCTRYK  
MISLDAWRVDINKNKITRVDQKALYFCGFPTLKHKHKFFLKKSGVQVFQSSRGENLMLEISVNAEPDE  
LRIENIASAVLGKAVFVNWPHLEEARVAVSDGETKFYIEPPGTQKVYLKGTAPPSKVIQLTDKEQSNW  
TKEIQGISEQYLRRKGIINETSAVVYAQLL TGRKYQISQNGEVRLKQWSKQILPFVYQTIIVKDIRAFD  
SRFSNIKTLLDDLFPRTMVFMLGTPYYGCTGEVQDSGDLITEGRIRVVFVIPCEPNLDALIQNHKYSIK  
YNPGYVLAGRLGVSGYLVSFTGSIFIGRGSRRNPHGDHKANVGLNLFNKKNEEVPGYTKKVGNEWMYS  
SAAEQLLAEYIERAPELFSYIAKNSQEDVFYEDDIWPGENENGAEKVQEIITWLKGPVSTLSRSSCDLH  
ILDAAIIVEKIEEEVEKCKQRKSNKKVRVTVPKPHLLYRPLEQQHGVIPDRDAEFRLFDRVNVNRESFVSVV  
GLRGTVIGIKGASREADVLFEVLFDEEFPGLTIRCSPPGRYRLPTSALVNLSHGSRCEGTGNQKLTAIK  
PQPSVSHCSAAPSGHLGGLNHSPQSPFLPTQVPTKGDDEFENIWSLQAGAKIQHLQPTVQEKGAVALPQE  
ISQVTEGHKSGFTDHSVRHQQRKHDSQRKFKEEYKSPKAECQSQKLSKQTSGGARSICLLKRNE  
TSEAQKVVTSYPNAVHKPPSGIENFLASLNL SKENEAQLPHHGEPPEADLSPQSFAMKTRMLKEILKI  
DSPDTRDSKNDMKSNEATVSSRRDERGVSAPKPKSKKL TCHMNKPHGTNEFQNVASVDSVCWPGQMP  
VSTPVTLSRICSLVGMPQPDFSFLRTTQMTVCQVKSNGLLVHGPQCHSESEAKERAALFALQQLGSL  
GVSFPLPPPIFTNYPPAVPPGAVPPVFTQPTANIMPSSSHLFGSVSWRPPVPVAGNAFHYPSPYPTMPLA  
GGVPGGVHSQF IPLQVTKKRVANRKNFENKEAQSQATPLQTNKPGSSEATKMTQESPPASSSSSSQAAQ  
PVSSHVETASQGHVGSQPRAPSSSKRKSRLAVNFSVSKPSE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

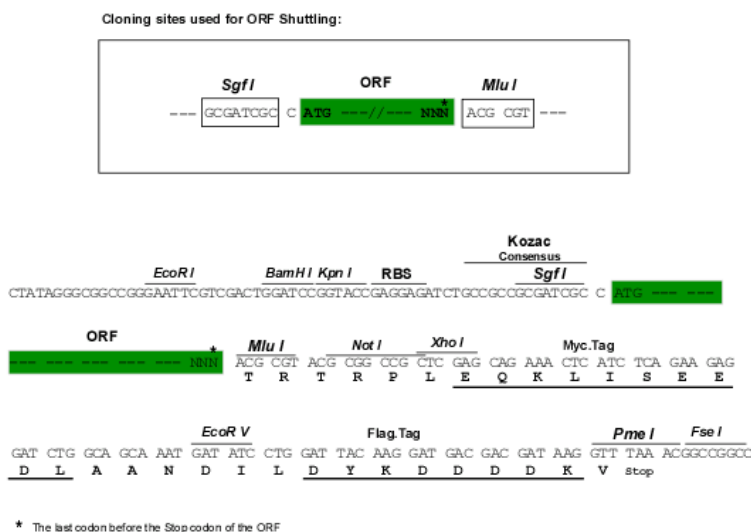
**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9049\\_e01.zip](https://cdn.origene.com/chromatograms/mm9049_e01.zip)

**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_011916

**ORF Size:** 5169 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\\_011916.3](#), [NP\\_036046.2](#)

**RefSeq Size:** 5515 bp

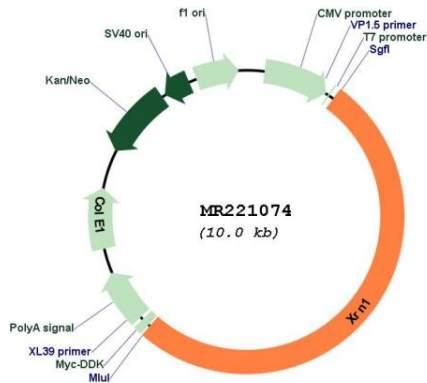
**RefSeq ORF:** 5172 bp

**Locus ID:** 24127

**Cytogenetics:** 9 E3.3

**MW:** 195.2 kDa

**Product images:**



Circular map for MR221074