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Product datasheet for MR208891

Xrn2 (BC004028) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xrn2 (BC004028) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xrn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR208891 representing BC004028
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCATGTTAGCAGTTGGTGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAAGATGATGAGGACAGTT
TTAGAAGACGACAGAAAGAAAAAAGAAAGAGGATGAAGAGAGATCAACCAGCTTTTACTCCTAGTGGAAT
ATTAACACCTCATGCCTTGGGTTCAAGAAATTCACCAGGTTGTCAAGTAGCCAGTAATCCAAGACAAGCA
GCCTATGAAATGAGGATGCAGAGAAACTCTAGTCCTTCAATATCTCCTAATACAAGTTTTGCATCTGATG
GCTCCCCATCTCCACTAGGAGGAATTAAGAGAAAAGCAGAAGACAGTGACAGTGAGCCAGAGCCAGAGGA
TAACGTCAGGTTATGGGAAGCTGGTTGGAAGCAACGATACTACAAGAACAAATTTGATGTAGATGCAGCT
GATGAGAAATTCCGACGTAAGGTTGTTCAGTCCTACGTTGAAGGACTGTGCTGGGTTCTTCGCTATTATT
ACCAGGGCTGTGCTTCCTGGAAGTGGTATTATCCATTCCATTATGCACCATTTGCCTCAGACTTTGAAGG
TATTGCAGACATGTCCTCTGAATTTGAAAAGGGCACAAAACCGTTTAAGCCACTGGAACAACTAATGGGG
GTTTTCCCAGCTGCAAGTGGTAACTTTCTACCTCCAACATGGCGGAAGCTCATGAGTGACCCTGATTCCA
GTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTATTGCCATTTGTGGATGAGCGAAGGCTGCGAGCGGCTCTAGAAGAGGTGTACCCAGACCTCACT
CCAGAAGAGAACAGGAGAAATAGTCTTGGAGGTGATGTTTTGTTTGTGGGAAAACTTCATCCACTACGCG
ACTTCATTTTAGAGCTGTATCAGACGGGTTCCACAGAGCCAGTTGATGTGCCACCTGAATTGTGTCACGG
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ATGTTTTTAAAGCTGCAATGCTTCCAGGAGCAAGAAAGCCAGCAACAGTTCTGAAACCTGGTGACTGGGA
AAAATCCAGCAATGGGCGGCAATGGAAACCTCAGCTTGGCTTTAACCGGGACCGGCGGCCTGTTCACCTG
GACCAGGCAGCCTTTAGAACTTTAGGCCATGTTACACCAAGAGGCTCGGGGACGAGTGTTTATACGAACA
CTGCACTACCACCTGCCAATTACCAGGGGAACAATTACAGGCCACTGCTGAGAGGTCAAGCTCAGATCCC
AAAACTTATGTCAAATATGAGGCCCCAAGATTCCTGGCGAGGCCCTCCTCCTCTTTTCCAGCAGCATAGA
TTTGAGAGAAGTGTTGGAGCTGAACCTCTACTGCCATGGAACCGGATGATCCAAAACCAAAATGCAGCCT
TTCAGCCAAATCAGTACCAGATGCTAGGAGGACCTGGAGGCTATCCACCCAGACGTGACGATCACCGAGG
AGGGAGACAGGGATATCCCAGAGAAGGACGGAAATACCCTTTGCCACCACCCTCGGGAAGATACAGTTGG
AAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

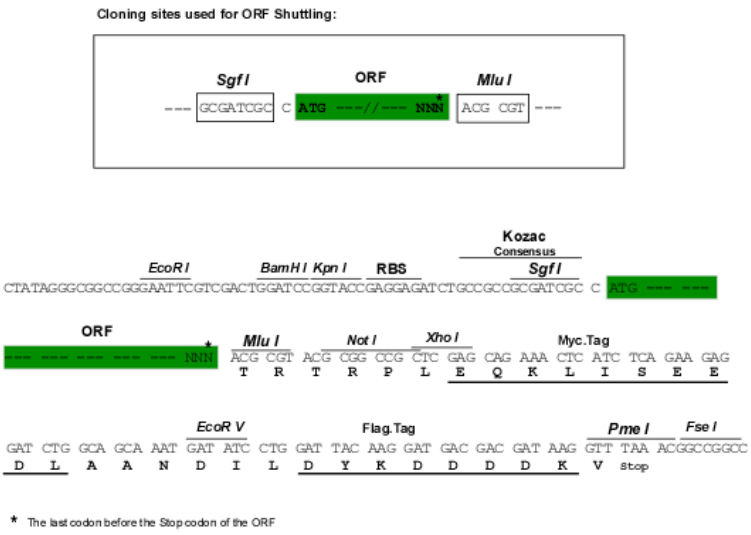
>MR208891 representing BC004028
Red=Cloning site Green=Tags(s)

MIMLAVGEVEDSIFKKRKDDEDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPGCQVASNPRQA
AYEMRMQRNSSPSISPNTSFASDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYYKNKFDVDAA
DEKFRRKVVQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMSSEFEKGTKPFKPLEQLMG
VFPAASGNFLPPTWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLT
PEENRRNSLGGDVLFVGKLHPLRDFILELYQTGSTEPVDVPPELCHGIQGTFSLDEEAILPDQTVCSPVP
MLRDLTQNTAVSINFKDPQFAEDYVFKAAMLPGARKPATVLKPGDWEKSSNGRQWKPQLGFNRDRRPVHL
DQAAFRTLGHVTPRGSGTSVYTNTALPPANYQGNNYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQHR
FERSVGAEPLLPWNRMIQNQNAAFQPNQYQMLGGPGGYPPRRDDHRGGRQGYPREGRKYPLPPPSGRYSW
N

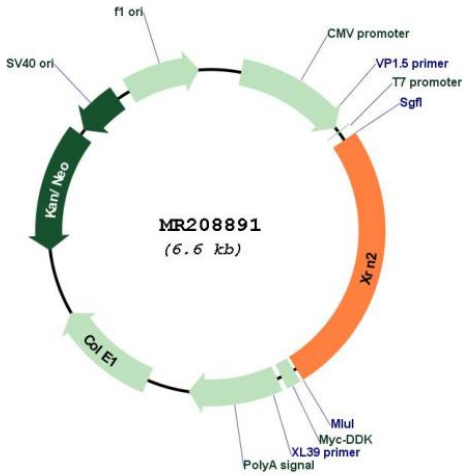
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC004028

ORF Size:	1683 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:	BC004028.1
RefSeq Size:	2552 bp
RefSeq ORF:	1685 bp
Locus ID:	24128
Cytogenetics:	2 G2
MW:	63.9 kDa
Gene Summary:	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]