

Product datasheet for **MG208891**

Xrn2 (BC004028) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xrn2 (BC004028) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xrn2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208891 representing BC004028
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCATGTTAGCAGTTGGTGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAAGATGATGAGGACAGTT
 TTAGAAGACGACAGAAAAGAAAAAGAAAGAGGATGAAGAGAGATCAACCAGCTTTTACTCCTAGTGGAAAT
 ATTAACACCTCATGCCTTGGGTTCAAGAAATTCACCAGGTTGTCAAGTAGCCAGTAATCCAAGACAAGCA
 GCCTATGAAATGAGGATGCAGAGAACTCTAGTCCTTCAATATCTCCTAATAACAAGTTTTGCATCTGATG
 GCTCCCATCTCCACTAGGAGGAATTAAGAGAAAAGCAGAAGACAGTGACAGTGAGCCAGAGCCAGAGGA
 TAACGTCAGGTTATGGGAAGCTGGTTGGAAGCAACGATACTACAAGAACAATTTGATGTAGATGCAGCT
 GATGAGAAATCCGACGTAAGGTTGTTCCAGTCTACGTTGAAGGACTGTGCTGGGTTCTTCGCTATTATT
 ACCAGGGCTGTGCTTCTGGAAGTGGTATTATCCATTCCATTATGCACCATTTGCCTCAGACTTTGAAGG
 TATTGCAGACATGCTCTGAATTTGAAAAGGGCACAAAACCGTTTAAGCCACTGGAACAATAATGGGG
 GTTTTCCAGCTGCAAGTGGTAACCTTTCTACCTCCAACATGGCGGAAGCTCATGAGTGACCTGATTCCA
 GTATAATTGACTTCTATCCTGAAGATTTTGTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
 TGCTCTATTGCCATTTGTGGATGAGCGAAGGCTGCGAGCGGCTCTAGAAGAGGTGTACCCAGACCTCACT
 CCAGAAGAGAACAGGAGAAATAGTCTTGGAGGTGATGTTTTGTTGTGGGAAAACCTCATCCACTACGCG
 ACTTCATTTTAGAGCTGTATCAGACGGGTTCCACAGAGCCAGTTGATGTGCCACCTGAATTGTGTACCGG
 GATTCAGGGACGTTTTCTTTGGATGAAGAAGCCATTCTCCAGACCAACAGTATGTTCCCTGTGCC
 ATGTTGCGGGACCTGACACAGAACAACCTGCAGTCAGTATTAATTTAAAGATCCACAGTTTGTGAAGATT
 ATGTTTTTAAAGCTGCAATGCTTCCAGGAGCAAGAAAGCCAGCAACAGTTCTGAAAACCTGGTGACTGGGA
 AAAATCCAGCAATGGGCGGCAATGGAAACCTCAGCTTGGCTTTAACCAGGACCGGCGCCTGTTCACCTG
 GACCAGGCAGCCTTTAGAACTTTAGGCCATGTTACACCAAGAGGCTCGGGGACGAGTGTTTATACGAACA
 CTGCACTACCACCTGCCAATTACCAGGGGAACAATTACAGGCCACTGCTGAGAGGTCAAGCTCAGATCCC
 AAAACTTATGTCAAATATGAGGCCCAAGATTCTGGCGAGGCCCTCCTCCTTTTTCCAGCAGCATAGA
 TTTGAGAGAAGTGTGGAGCTGAACCTCTACTGCCATGGAACCGGATGATCCAAAACCAAATGCAGCCT
 TTCAGCCAAATCAGTACCAGATGCTAGGAGGACCTGGAGGCTATCCACCCAGACGTGACGATCACCGAGG
 AGGGAGACAGGGATATCCAGAGAAGGACGAAATACCTTTGCCACCACCTCGGGAAGATACAGTTGG
 AAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208891 representing BC004028
 Red=Cloning site Green=Tags(s)

MIMLAVGEVEDSIFKKRKDEDESFRRRQKEKRKRMRDQPAFTPSGILTPHALGSRNSPGCQVASNPRQA
 AYEMRMQRNSSPSISPNTSFASDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKFDVDA
 DEKFRRKVVQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEADIADMSSEFEKGTKPFKPLEQLMG
 VFPAASGNFLPPTWRKLMSPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPLD
 PEENRRNSLGGDVLVFGKHLPLRDFILELYQTGSTPEVDVPELCHGIQGTFLSDEEAILPDQTVCSVPV
 MLRDLTQNTAVSINFKDPQFAEDYVFKAAMLPGARKPATVLPKPGDWEKSSNGRQWPKQLGFNRDRRPVHL
 DQAAFRTLGHVTPRSGTSVYNTALPPANYQGNNYRPLLRGQAQIPKLMNMRPQDSWRGPPPLFQQHR
 FERSVGAEP LLPWNRMIQNQNAAFQPNQYQMLGGPGGYPPRRDDHRGGRQGYPREGRKYPLPPPSGRYSW
 N

TRTRPLE - GFP Tag - V

Restriction Sites:

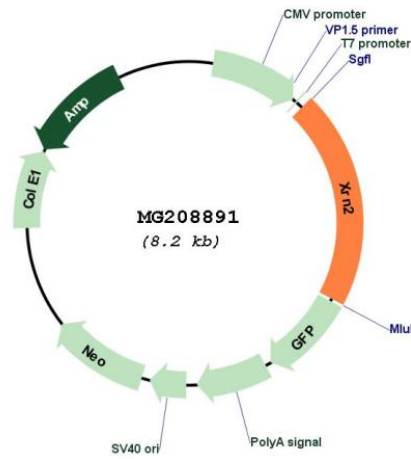
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:

BC004028

ORF Size:	1686 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:	<ol style="list-style-type: none">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
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]