

Product datasheet for **RC238350**

XRN1 (NM_001282859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRN1 (NM_001282859) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	XRN1
Synonyms:	SEP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238350 representing NM_001282859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGTCCCAAGTTTACAGATGGATCTCAGAGCGGTATCCCTGTCTCAGCGAAGTGGTGAAGAGC
 ATCAGATTCCTGAATTTGACAACTGTACTGGATATGAATGGAATTATACATCAGTGCTCCCATCTAA
 TGATGATGATGTTCACTTTAGAATTTAGATGATAAAATCTTACTGATATTTTCACTACCTGGAGGTG
 TTGTTTCGCATTATAAACCCAGGAAAGTGTCTTTATGGCTGTAGATGGTGTGGCTCCTCGAGCAAAA
 TGAACCAGCAGCGTGGGAGGCGTTTAGGTGAGCAAGGAGGCAGAAGACAAAATAAAAAGGCAATAGA
 GAAGGGAGAACTCTTCTACAGAGGCCAGATTTGATTCCAAGTGTATCACACCAGGAAGTGAATTTATG
 GCCAGTTACATGAACATCTGAAGTATTTGTAATATGAAAATTTCCACAGACAAGTCATGGCAAGGAG
 TTACCATCTACTCTCAGGCCATGAGACTCCTGGAGAAGGAGAGCATAAAATCATGGAATTTATCAGATC
 CGAAAAGCAAAGCCAGATCATGATCCAACACCAGACTGTCTTTATGGTTTAGATGCTGACTTGATT
 ATGCTTGGATTAACAAGTCATGAGGCACATTTTCTCTTAAGAGAAGAAGTTCGATTTGGTGGCAAAA
 AAACACAACGGGTATGTGCTCCAGAAGAACTACATTTACCTTCTACACTTGTCTTTAATGAGAGAGTA
 TATTGACTATGAGTTTTAGTATTAAGAAAAGATCACATTTAAATATGATATTGAAAGGATAATAGAT
 GATTGGATTTTGTGGGTTTCTTGTGGTAATGATTTTATCCCTCATCTACCTCATTTACATATTAATC
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 AAGTGGCACCTCAACTTACCTCGATTTGAGAAATACCTGTGAAACTATCAGATTTTATCGGGAGCAC
 TTCAGTGAAGTTTTGTGGACCTAAAATGGTTTGAAGCAAAGTTGGTAAACAAGTACCTCAATGAAGCAG
 CAGGTGTCGCAGCAGAAGAAGCCAGGAACAAGGAAAAGAAAAGTTAAAGGGCCAGGAAAATTTCTCT
 GTGTTGGACTGCTTTAGACAAAAATGAAGGCGAAATGATAACTTCTAAGGATAATTTAGAAGATGAGACT
 GAAGATGATGACCTATTTGAAACTGAGTTTAGACAATATAAAAGAACATATTACATGACGAAGATGGGG
 TTGACGTAGTATCTGAGTACGTTTTTGGCAATGCTTTTATTTTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238350 representing NM_001282859
 Red=Cloning site Green=Tags(s)

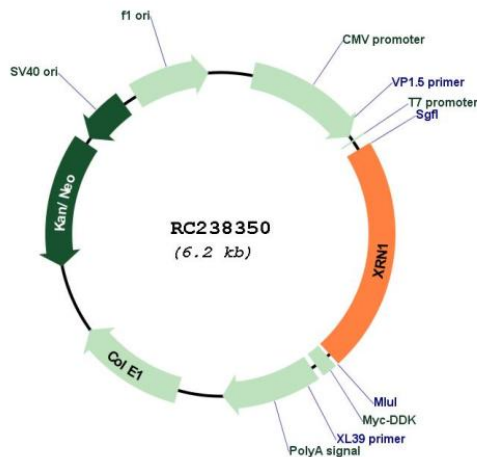
MGVPKFYRWISERYPCLSEVVKEHQIPEFDNLYLDMNGIIHQCSHPNDDDVHFRISDDKIFTDIFHYLEV
 LFRIIKPRKVFVMAVDGVAPRAKMNQQRGRFRSAKEAEDKIKKAIKGETLPTEARFDSNCITPGTEFM
 ARLHEHLKYFVNMKISTDKSWQGVTIYFSGHETPGEHEHKIMEFIRSEKAKPDHDPNTRHCLYGLDADLI
 MLGLTSHEAHFSLLREEVRFGGKKTQRCAPPEETTFHLLHLSLMREYIDYEFVSLKEKITFKYDIERIID
 DWILMGFLVGNDFIPHLPHLHINHDLPLLYGTYVTILPELGGYINESGHLNLPREFEYLVKLSDFDREH
 FSEVFDLKWFEKVGKYLNEAAGVAAEEARNYKEKKKLGQENSLCWTALDKNEGEMITSKDNLEDET
 EDDDLFETEFQYKRTYYMTKMGVDVVSEYVFANAFILK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001282859

ORF Size: 1377 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_001282859.1](#), [NP_001269788.1](#)

RefSeq Size: 2152 bp

RefSeq ORF: 1380 bp

Locus ID: 54464

UniProt ID: [Q8IZH2](#)

Cytogenetics: 3q23

Protein Pathways: RNA degradation

MW: 54.3 kDa

Gene Summary: This gene encodes a member of the 5'-3' exonuclease family. The encoded protein may be involved in replication-dependent histone mRNA degradation, and interacts directly with the enhancer of mRNA-decapping protein 4. In addition to mRNA metabolism, a similar protein in yeast has been implicated in a variety of nuclear and cytoplasmic functions, including homologous recombination, meiosis, telomere maintenance, and microtubule assembly. Mutations in this gene are associated with osteosarcoma, suggesting that the encoded protein may also play a role in bone formation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]