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Product datasheet for SC336244

XRN1 (NM_001282859) Human Untagged Clone

Product data:

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

Fully Sequenced ORF:

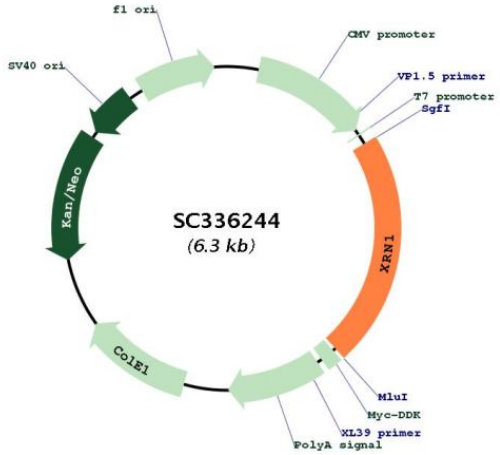
>SC336244 representing NM_001282859.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAGTCCCCAAGTTTTACAGATGGATCTCAGAGCGGTATCCCTGTCTCAGCGAAGTGGTGAAAGAG
CATCAGATTCCTGAATTTGACAACTTGTACCTGGATATGAATGGAATTATACATCAGTGCTCCCATCCT
AATGATGATGATGTTCACTTTAGAATTTCAGATGATAAAATCTTTACTGATATTTTTCACTACCTGGAG
GTGTTGTTTCGCATTATTAAACCCAGGAAAGTGTTCTTTATGGCTGTAGATGGTGTGGCTCCTCGAGCA
AAAATGAACCAGCAGCGTGGGAGGCGTTTTAGGTCAGCAAAGGAGGCAGAAGACAAAATTAAAAAGGCA
ATAGAGAAGGGAGAAACTCTTCCTACAGAGGCCAGATTTGATTCCAACTGTATCACACCAGGAACTGAA
TTTATGGCCAGGTTACATGAACATCTGAAGTATTTTGTAAATATGAAAATTTCCACAGACAAGTCATGG
CAAGGAGTTACCATCTACTTCTCAGGCCATGAGACTCCTGGAGAAGGAGAGCATAAAATCATGGAATTT
ATCAGATCCGAGAAAGCAAAGCCAGATCATGATCCAAACACCAGACACTGTCTTTATGGTTTAGATGCT
GACTTGATTATGCTTGGATTAACAAGTCATGAGGCACATTTTTCTCTCTTAAGAGAAGAAGTTCGATTT
GGTGGCAAAAAAACACAACGGGTATGTGCTCCAGAAGAAACTACATTTCACCTTCTACACTTGTCTTTA
ATGAGAGAGTATATTGACTATGAGTTTTCAGTATTAAAAGAAAAGATCACATTTAAATATGATATTGAA
AGGATAATAGATGATTGGATTTTGATGGGGTTTCTTGTTGGTAATGATTTTATCCCTCATCTACCTCAT
TTACATATTAATCATGATGCACTGCCTCTTCTTTATGGAACATATGTTACCATCCTGCCAGAACTTGGG
GGTTATATTAATGAAAGTGGGCACCTCAACTTACCTCGATTTGAGAAATACCTTGTGAAACTATCAGAT
TTTGATCGGGAGCACTTCAGTGAAGTTTTTGTGGACCTAAAATGGTTTGAAAGCAAAGTTGGTAACAAG
TACCTCAATGAAGCAGCAGGTGTCGCAGCAGAAGAAGCCAGGAACTACAAGGAAAAGAAAAAGTTAAAG
GGCCAGGAAAATTCTCTGTGTTGGACTGCTTTAGACAAAAATGAAGGCGAAATGATAACTTCTAAGGAT
AATTTAGAAGATGAGACTGAAGATGATGACCTATTTGAAACTGAGTTTAGACAATATAAAAGAACATAT
TACATGACGAAGATGGGGGTTGACGTAGTATCTGAGTACGTTTTTGCCAATGCTTTTATTTTAAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001282859

Insert Size: 1380 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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
RefSeq Size:	2152 bp
RefSeq ORF:	1380 bp
Locus ID:	54464
UniProt ID:	Q8IZH2
Cytogenetics:	3q23
Protein Pathways:	RNA degradation
MW:	53.8 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] Transcript Variant: This variant (4) lacks several exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (d) has a shorter and distinct C-terminus, compared to isoform a.