

Product datasheet for **RG238350**

XRN1 (NM_001282859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRN1 (NM_001282859) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	XRN1
Synonyms:	SEP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238350 representing NM_001282859. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAGTCCCAAGTTTACAGATGGATCTCAGAGCGGTATCCCTGTCTCAGCGAAGTGGTAAAGAG
CATCAGATTCTGAATTTGACAACCTGTACCTGGATATGAATGGAATTATACATCAGTGCTCCCATCCT
AATGATGATGATGTTCACTTTAGAATTTAGATGATAAAATCTTACTGATATTTTTCACTACCTGGAG
GTGTTGTTTCGCATTATTAACCCAGGAAAGTGTCTTTATGGCTGTAGATGGTGTGGCTCCTCGAGCA
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AATTTAGAAGATGAGACTGAAGATGATGACCTATTTGAAACTGAGTTTAGACAATATAAAGAACATAT
TACATGACGAAGATGGGGTTGACGTAGTATCTGAGTACGTTTTTGCCAATGCTTTTATTTTAAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238350
 Blue=ORF Red=Cloning site Green=Tag(s)

MGVPKFYRWISERYPCLSEVVKEHQIPEFDNL YLDMNGIIHQCSHPNDDDVHFRISDDKIFTDIFHYLE
 VLFRIIKPRKVFMAVDGVAPRAKMNQQRRFRSAKEAEDKIKKAIEKGETLPTEARFDSNCITPGTE
 FMARLHEHLKYFVNMKISTDKSWQGVTIYFSGHETPGEGEHKIMEFIRSEKAKPDHPNTRHCLYGLDA
 DLIMLGLT SHEAHF SLLREEVRFGGKKTQRVCAPEETTFHLLHLSLMREYIDYEF SVLKEKITFKYDIE
 RIIDDWILMGFLVGNDFIPHLPHLHINH DALPLLYGTYVTILPELGGYINESGHLNLPREFKYLVLKLS
 FDRHFSEVFDLKWFE SKVGNKYLNEAAGVAAEEARNYKEKKLKGQENSLCWTALDKNEGEMITSKD
 NLEDETEDDDL FETEFRQYKRTYYMTKMGVDVVSEYVFANAFILK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

RefSeq: [NM_001282859.1](#), [NP_001269788.1](#)

RefSeq Size: 2152 bp
 RefSeq ORF: 1380 bp

Locus ID: 54464

UniProt ID: [Q8IZH2](#)

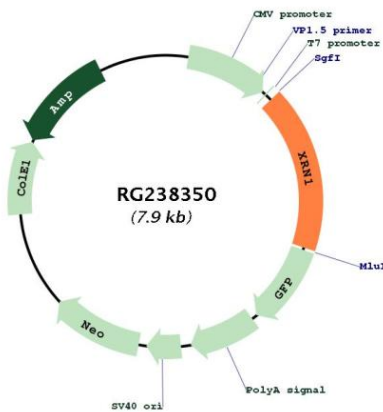
Cytogenetics: 3q23

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]

Product images:



Circular map for RG238350