

Product datasheet for RC240201

XRN1 (NM_001282857) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRN1 (NM_001282857) 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
ORF Nucleotide Sequence:	>RC240201 representing NM_001282857 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC240201 representing NM_001282857
Red=Cloning site Green=Tags(s)

MGVPKFYRWISERYPCLSEVVKEHQIPEFDNLYLDMNGIIHQCSHPNDDDVHFRI SDDKIFTDIFHYLEV
LFRI IKPRKVFFMAVDG VAPRAKMNQQRRRFRSAKEAEDKIKKAIEKGETLPTEARFDSNCITPGTEFM
ARLHEHLKYFVNKISTDKSWQGVTIYFSGHETPGEGEHKIMEFIRSEKAKPDHPNTRHCLYGLDADLI
MLGLTSHEAHF SLLREEVRFGGKKTQRVCAPEETTFHLLHLSLMREYIDYEF SVLKEKITFKYDIERIID
DWILMGFLVGNDFIPHLPHLHINH DALPLL YGTYVTILPELGGYINESGHLNLPREFEYLVKLSDFDREH
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AKEVQGI SEHYLRKGI IINETS AVVYAQLL TGRKYQINQNGEVRL EKQWSKQVVPFVYQTI VKDIRAFD
SRFSNIKTDDL FPLRSMV FMLGTPYYGCTGEVQDSGDVITEGRIRVIFSIPCEPNLDALIQNHKYSIK
YNPGYVLASRLGVSGYL VSRFTGSIFIGRSRRNPHGDHKANVGLNLFKNKNEEVPGYTKKVGSEWMYS
SAAEQLLAEYLERAPELFSYIAKNSQEDVFYEDDIWPGENENGAEKVQEIITWLKGHPVSTLSRSSCDLQ
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PQPAVHQHSSSSVSSGHLGALNHSPQSLFVPTQVPTKDDDFCNIWQSLQSGMKQYFQPTIQEKGAVL
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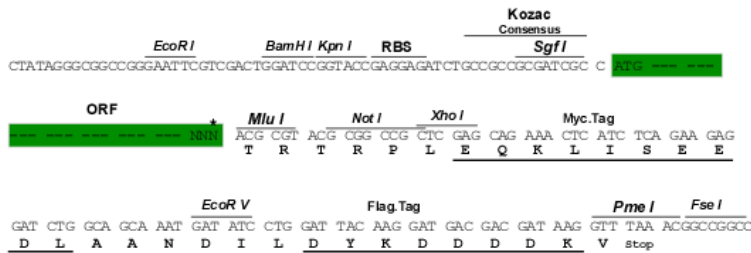
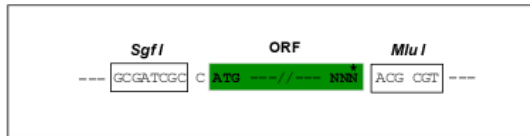
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

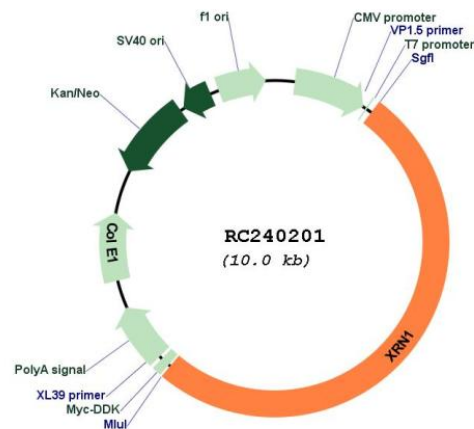
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001282857

ORF Size: 5082 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:	NM_001282857.2
RefSeq Size:	10107 bp
RefSeq ORF:	5085 bp
Locus ID:	54464
UniProt ID:	Q8IZH2
Cytogenetics:	3q23
Protein Pathways:	RNA degradation
MW:	193.3 kDa
Gene Summary:	<p>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]</p>