

Product datasheet for **SC115463**

XRN2 (NM_012255) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRN2 (NM_012255) Human Untagged Clone
Tag:	Tag Free
Symbol:	XRN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_012255, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGTCCCGGCTTCTCCGCTGGCTCAGCCGAAGTACCCGTCCATCATAGTCAACTGCGTGGAAAG
AGAAGCCAAAAGAATGCAATGGTGTAAAGATCCAGTTGATGCCAGTAAACCTAATCCAATGATGTGGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCA
CCAAAAAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAAGAC
CAAGAAGACTTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAG
GAGGTTACAGGCATCAAAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTG
GCAAAAGGTGGCTTTCTCCTCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAA
CTGAATTCATGGACAATCTTCTAAATGCCTTCGCTATTACATAGCTGATCGTTAAATAATGACCCTGG
GTGGAAAAATTTGACAGTATTTTATCTGATGCTAGTGTCTCGTGAAGGAGAACAATAAATCATGGAT
TACATTAGAAGGCAAAGAGCCCAGCCTAACCATGACCCAATACTCATCATTGTTTATGTGGAGCAGATG
CTGATCTCATTATGCTTGGCCTTCCACACATGAACCGAACTTTACCATTATTAGAGAAGAATTCAAACC
AAACAAGCCAAAACCATGTGGTCTTTGTAAATCAGTTTGGACATGAGGTCAAAGATTGTGAAGGTTTGCCA
AGAGAAAAGAAGGAAAGCATGATGAACTTGCCGATAGTCTTCTTGTGCAAGGAGAGTTTATCTTCC
TTCGGCTTAATGTTCTTCGTGAGTATTTGGAAAGAGAAGTCAATGAGCCAGCCTACCATTACATTTGA
TGTTGAGAGGAGCATTGATGACTGGGTTTTCATGTGCTTCTTGTGGAAATGACTTCTCCCTCATTG
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TGAAGTTGAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTGAAGACGACAGAAAGAA
AAAAGAAAAGAGAATGAAGAGAGATCAACCAGCTTCACTCTAGTGAATATTAACCTCATGCTTGG
GTTCAAGAAATTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCA
GAATAACTCTAGTCCCTCGATATCTCCTAATACGAGTTTACATCTGATGGCTCCCGTCTCCATTAGGA
GGAATTAAGCGAAAAGCAGAAGACAGTACAGTGAACCTGAGCCAGAGGATAATGTGAGTTATGGGAAG
CTGGCTGGAAGCAGCGTACTACAAGAACAATTTGATGTGGATGCAGCTGATGAGAAATTCGTCGGAA
AGTTGTGACGTGACGTTGAAGGACTTTGCTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCTGG
AAGTGGTATTATCCATTTTATTATGCACCATTTGCTTCCAGCTTTGAAGGCATTGCAGACATGCCATCTG
ATTTTGAGAAGGGTACGAAACCGTTTAAACCACTAGAACAATTATGGGGTATTTCCAGCTGCAAGTGG
TAATTTTCTACCTCCATCATGGCGAAGCTCATGAGTATCCTGATTCTAGTATAATTGACTTCTATCCT
GAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGTTGCTCTTGGCATTGCTGG
ATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGAAGAGACCAGAAGAAA
CAGCCTTGAGGATGATGTCTTATTTGTGGGAAACATCACCCACTCCATGACTTCATTTTAGAGCTGTAC
CAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACTATGTCATGGGATTCAGGAAAGTTTTCTT
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GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTGCTGAAGATTACATTTTAAAGCTGTAATG
CTTCCAGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTACTGGGAAAAATCCAGCAATGGACGGC
AGTGGAAAGCCTCAGCTTGGCTTTAACCGTGACCCGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGAC
TTTGGGCCATGTGATGCCAAGAGGCTCAGGAACTGGCATTACAGCAATGCTGCACCACCCTGTGACT
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TGAACCTCTGCTCCATGGAACCGGATGCTGCAAACCCAGAATGCAGCCTTCCAGCCAAACCACTACAG
ATGCTAGCTGGGCTGGTGGTATCCACCAGACGAGATGATCGTGGAGGGAGACAGGGATATCCAGAG
AAGGAAGGAAATACCCTTGGCCACCACCCTCAGGAAGATACAATTGGAATTA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012255 unedited
CACAGCAATTCGCACGAGGGTCAGCCGGTCGGCCGCCCTCCAGCCGTGTGCCGTATG
GGAGTCCC GGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGC
GTGGAAGAGAAGCCAAAAGAATGCAATGGTGTAAGATTCAGATTGATGCCAGTAAACCT
ATTCCAATGATGTGGAGTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCC
TGTACTCATCTGAAGACAAAACCAGCACCAAAAAATGAAGATGAAATGATGGTTGCAATT
TTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACTTCTCTACATGGCA
ATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGTTTCAGGGCA
TCAAAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCA
AAAGGTGGCTTTCTTCTCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACA
CCAGGAACTGAATTCATGGACAATCTTGCTAAATGCCTTCGCTATTACATAGCTGATCGT
TTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGATGCTAGTGCTCCT
GGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCANAGAGCCCAGCCTAACCAT
GACCCANATACTCATCTTGTATGTGGAGCAGATGCTGATCTCATTATGCTTGGGCCCT
GCCACACATGAACCGAAGTTTACCATTATTAGAGAAGAATTCANACCANNACAGCCCAAA
CCATGTGGGTCTTTGTAATCAGTTTGGACATGANGTCAAAGATGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012255 unedited
GACCGCGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGTTTTAAAAGTTTA
ACTTTATTTTTTTTACTAAAGTTCAGAAATTTCTGTAAGACAAGTACATTAATGAAATG
TTTCCAAAGAAACTGAACAATATATACTCTAGTTTGCTGAGGTTCCAGCTCAAGAGTT
CAAACCTAATTCTTGCAATAAAAATCAGCATGGATCTTAGATGATCTAGAATACACTG
TGTTTTGAAATCCACAGCTGGTTTCATTTTTAACCATTATGAAAAACCAGTACTCCTATT
CCATCAAATGTGTTTTATAAGCAATAATAAATTCAGATCCACTGTATTATGCAACATACA
TCTTTGGAAAGCAACATAAACAGTGAGATCAGATCAGTAGAAATATACACAGTTAAAAGA
AATACACAAAGTACTGTAGTTTTATAAAACTACTACTTGAGAAAGAAATCTTTCCACA
AATAGCATAAACTGTAGAATGATGAAAGGATTTGGGAAAGCTTTACAAAAGCTTAATTC
CAATTGTATCTTCTGAGGGTGGTGGCAAAGGGTATTTCTTCTTCTCTGGGATATCCC
TGCTCCCTCCACGATCATCTCGTCTGGGTGGATACCCACCAGGCCAGCTAGCATCTGG
TACTGGTTTGGCTGGAAGGCTGCATTCTGGGTTTGCAGCATCCGTTCCATGGGAGCAGA
GGTNCAGCCCAACGCCTCTGTCAAACCTTTGCTGCTGGAAAGGGGAGGAGGACCTCGCC
AGGAATCCTGGGGCCTATATTTGACATAAGTTTGGATCTGGGCTTGTCTCTCAAAACGCC
TGTTTAAGTTCCTGGTAGTCACAGGGGGGTGCAGCATGCTGTAATGCATTCTGACC
CTTTGGCTCCCATGCCCAATCCTGAAGC

Restriction Sites:

NotI-NotI

ACCN:

NM_012255

Insert Size:

3570 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_012255.3 , NP_036387.2
RefSeq Size:	3449 bp
RefSeq ORF:	2853 bp
Locus ID:	22803
UniProt ID:	Q9H0D6
Cytogenetics:	20p11.22
Domains:	DUF251
Protein Pathways:	RNA degradation
Gene Summary:	<p>This gene encodes a 5'-3' exonuclease that promotes transcription termination at cotranscriptional cleavage sites. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon, resulting in a distinct 5' UTR and the use of an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus , and is shorter, compared to isoform 1.</p>