

Product datasheet for SC118003

CRM1 (XPO1) (NM_003400) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRM1 (XPO1) (NM_003400) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRM1
Synonyms:	CRM-1; CRM1; emb; exp1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118003 sequence for NM_003400 edited (data generated by NextGen Sequencing)

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ATGCCAGCAATTATGACAATGTTAGCAGACCATGCAGCTCGTCAGCTGCTTGATTTCAGC
CAAAAACCTGGATATCAACTTATTAGATAATGTGGTGAATTGCTTATACCATGGAGAAGGA
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GAGAAAGAAAAGGTGTATATCGGAAAATTAATATGATCCTTGTTGAGACTGAAACAA
GAATGGCCAAACATTGGCCAATTTTATCAGTGATATTGTTGGAGCAAGTAGGACCAGC
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GTTAGTGAATGGCTAAACCAGAGGAAGTATTGGTTGTAGAGAATGATCAAGGAGAAGTT
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CACAATCAAGTGAATGGTACAGAGTGGTCATGGAAAAATTTGAATACATTGTGTTGGCA

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ATAGGCTCCATTAGTGGAGCAATGCATGAAGAGGACGAAAAACGATTTCTTGTTACTGTT
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 GCATCAAATATCATGTACATAGTAGGTCATACCCACGTTTTTTGAGAGCTCACTGGAAA
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 CAAATAAAGGAATTTGCAGGTGAAGACACTTCTGATTTGTTTTTGGAGAGAGAGAAATA
 GCCCTACGGCAGGCTGATGAAGAGAAACATAAACGTCAAATGTCTGTCCCTGGCATCTTT
 AATCCACATGAGATTCAGAAGAAATGTGTGATTA

Clone variation with respect to NM_003400.3

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_003400 unedited
 TATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGTAATATTATTGAGCTCTTT
 TTGCCCTTTTCTGTCCGTTTTTTTTAATTTCTTTTTTGGAGTGGGAAAACCTGAAACCCA
 CCTTGATTCGTCCTCTCCCCCTCCCCACCTTCCCTCGCCCTAATCCCCAACGAGGA
 AGGAAGGAGCAGTTGGTCAATCTCTGGTAATCTATGCCAGCAATTATGACAATGTTAGC
 AGACCATGCAGCTCGTCAGCTGTTGATTTAGCCAAAACTGGATATCAACTTATTAGA
 TAATGTGGTGAATTGCTTATACCATGGAGAAGGAGCCAGCAAAGAATGGCTCAAGAAGT
 ACTGACACATTTAAAGGAGCATCCTGATGCTTGGACAAGAGTCGACACAATTTTGGAAAT
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 NATCTAAGCATTAAAGACAGCATGTGCCATGGATNCTACAGATATTTCAACTGTGTCA
 GTTTGTATGGAATCTCAAATGCTCCACTTGACATGCCACCTTGAACATGCTCAGATT
 CTGACCTGGATCCCTGGGATTATTTTTGAGACAAATAATCAGACA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003400 unedited
 GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTAAATGTAACCAAGTTTATTTTGCTTTTAAAGTAGGGTCTTAAAGCACTACAGCTT
 GGTAAACAATGTAATAGTATAAGTCATCTCAAAGCCAGAGTTGTTTGTGTTTTTAAT
 GAGTTGTTAAAAAGATGCAGCCTATTCTAACAGGATAAATATTTTTAACCATTTCACTTC
 GAGTTAATGAAGGCTCACAAATGAGCAACTCCTCATTGAGGAAAAACAAAAAGCTGTTG
 TCGACAAGCGACAGCCACACCCCCAAAAACAAAAAGAAGTGGTAAAAATAACTGGGTT
 CCCATATTTTTGAAGTCGCTTTACAATGGGATGATATGCACATGATCTTGCTGCAATCTT
 GCCAAAGAGACTTTGTAATACATGTAGTCTAAACAAACGATTTCAGTCCAAGAGGTGCTAA
 CTTCAGACAATGCAGCACTATAATCCTTTAAACAACGCAATTGGGTTACTCATTATCTT
 TTCTTCTAGGCTGAAATAGACTAGAAGGAAATGCTCCCTAATTAATAATGGTATTGTT
 TACAGGAAAAATTGTATAATTTGCATTAGAATTACAAGTATATGTTCAAATCGAATTTG
 CCTCTCCCCCAGCCAGCCACAAAAATGGGCATGAAGTAAAAATTTTTAAAAATGCCTT
 AATTTTCACTTCATGCAAATAAATAAGATGACCAAACAAAAAGCTTAAACAATGGAA
 GGATATTTACAGAAATTTCTTATACAAAAACACATAAGAAAAGGGCCACTAGGTGACA
 TTTAATTACAAATTTGGCTCATTTTTGTGACAAAAACCATGCTGTTTTTCTCTGCTA
 ACGAGTTGCAAAAAAAAACGCCTGGATTTGATTA

Restriction Sites:

NotI-NotI

ACCN:

NM_003400

Insert Size:

4880 bp

OTI Disclaimer:

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.

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](#)

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_003400.3](#), [NP_003391.1](#)

RefSeq Size:

4830 bp

RefSeq ORF: 3216 bp

Locus ID: 7514

UniProt ID: [O14980](#)

Cytogenetics: 2p15

Domains: IBN_NT

Protein Families: Druggable Genome

Gene Summary: This cell-cycle-regulated gene encodes a protein that mediates leucine-rich nuclear export signal (NES)-dependent protein transport. The protein specifically inhibits the nuclear export of Rev and U snRNAs. It is involved in the control of several cellular processes by controlling the localization of cyclin B, MPAK, and MAPKAP kinase 2. This protein also regulates NFAT and AP-1. [provided by RefSeq, Jan 2015]