

Product datasheet for **MR215858**

Cse1l (NM_023565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cse1l (NM_023565) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cse1l
Synonyms:	2610100P18Rik; AA407533; Capts; Cas; Xpo2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR215858 representing NM_023565
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCAGCGATGCGAATTTACAGACACTAACAGAGTATTTAAAGAAAACCTGGATCCTGATCCTG
 CCATTAGACGGCCAGCTGAGAAGTTTCTCGAATCCGTAGAAGGAAATCAGAATTACCCACTGTTGCTTTT
 AACATTATTGGAAAAGTACAGGATAATGTCATTAAAGTATGTGCTTCAGTAACCTTCAAGAACTATATT
 AAAAGGAATTGGAGAATTGTTGAAGATGAACAAACAAAATTTGCGAAGCTGATCGAGTAGCTATTAAG
 CCAACATAGTGCATCTGATGCTGAGCAGTCCAGAGCAGATTGAGAAGCAGCTGAGTATGCTATTAGCAT
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 ATTC AAGGCCACCATTGAACTGTGCAGTACCCATGCAAAATGACGCCTCTGCCCTGAGGATCTTTTTTCT
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 CAGGGCGAGAAGTTAAATATGACTTGTGGTTAGCAATGCAATTCAGTTTCTGGCTTCAGTTTGTGAAAAG
 GCCACATTATAAGAATCTGTTGAGGACCAGAACCGCTGACAAGTATCTGTGAAAAAGTTATTGTGCCT
 AACATGGAATTTAGAGCTGCTGATGAAGAAGCTTTTGAAGATAATTCTGAGGAGTACATACGGAGGGATT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215858 representing NM_023565
 Red=Cloning site Green=Tags(s)

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLSVEGNQNYPLLLLTLLEKSQDNVIKVCASVTFKNYI
 KRNWRIVEDEPNKICEADRVAIKANIVHMLSSPEIQKQLSDAISIIIGREDFPQKWPDLLTEMVNRFS
 GDFHVINGVLRTAHSLFKRYRHEFKSNELWTEIKLVDAFALPLTNLFKATIELCSTHANDASALRILFS
 SLILISKLFYSLNFQDLPEFFEDNMETWMNMFHTLLTDNKLLQTDDEEEAGLLELLKSQICDNaALYAQ
 KYDEEFQRYLPRFVTAIWNLVTTGREVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVP
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 SVNWKHKDAAIYLVTSLASKAQTQKHGITQANELVNLTEFFVNHILPDLKSNNVNEFPVLKADGIKYYIMI
 FRNQVPKEHLLVSIPLLI SHLEAESIVVHTYAAHALERLFTMRGSNNTTLFTAEEIAPFVEILLTNLFKA
 LTLPGSSENEYIMKAIMRSFSLQEAIIPIYIPTLITQLTQKLLAVSKNPSKPHFNHYMFEAICLSIRITC
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 IPALVRLQLAFLERGSSTIATAADKIPGLLGVFQKLIASKANDHQGFYLLNSIIEHMPPEVDQYRKQI
 FILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKIIPEIQKVSNGVVEKK
 ICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDSIPDEEHFIDIEDTPGYQTAFSQLAFAG
 KKEHDPVGMVNNPKIHLAQSLHKLSTACPRVPSMVSTSLNAEALQYLQGYLQAASVTLL

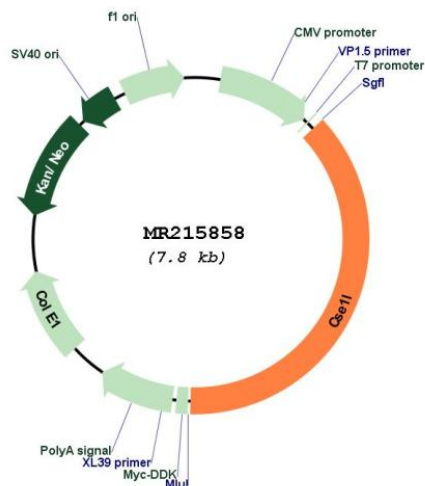
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_023565

ORF Size: 2913 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:

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_023565.3](#), [NP_076054.1](#)

RefSeq Size: 3604 bp

RefSeq ORF: 2916 bp

Locus ID: 110750

UniProt ID: [Q9ERK4](#)

Cytogenetics: 2 87.22 cM

MW: 110.9 kDa

Gene Summary: Export receptor for importin-alpha. Mediates importin-alpha re-export from the nucleus to the cytoplasm after import substrates (cargos) have been released into the nucleoplasm. In the nucleus binds cooperatively to importin-alpha and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the importin-alpha from the export receptor. CSE1L/XPO2 then return to the nuclear compartment and mediate another round of transport. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. [UniProtKB/Swiss-Prot Function]