

## Product datasheet for **MG215858**

### Cse1l (NM\_023565) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cse1l (NM_023565) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cse1l
Synonyms:	2610100P18Rik; AA407533; Capts; Cas; Xpo2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215858 representing NM\_023565  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCTCAGCGATGCGAATTTACAGACACTAACAGAGTATTTAAAGAAAACCTGGATCCTGATCCTG  
 CCATTAGACGGCCAGCTGAGAAGTTTCTCGAATCCGTAGAAGGAAATCAGAATTACCCACTGTTGCTTTT  
 AACATTATTGGAAAAGTACAGGATAATGTCATTAAGTATGTGCTTCAGTAACCTTCAAGAAGTATATT  
 AAAAGGAATTGGAGAATTGTTGAAGATGAACAAACAAAATTTGCGAAGCTGATCGAGTAGCTATTAAG  
 CCAACATAGTGCATCTGATGCTGAGCAGTCCAGAGCAGATTGAGAAGCAGCTGAGTATGCTATTAGCAT  
 CATTGGCAGAGAAGATTTCCCTCAGAAATGGCCTGACTTGTGACAGAAATGGTGAATCGCTTTCAGAGT  
 GGAGATTTTCACGTCATTAATGGAGTCTTCGTACAGCGCACTCACTATTAAGAGATACCGGCATGAGT  
 TCAAGTCAAATGAGCTGTGGACTGAAATTAACCTTGTCTTGGATGCCTTTGCTTTGCCTTTGACTAATCT  
 ATCAAGGCCACCATTGAACTGTGCAGTACCCATGCAAATGACGCCTCTGCCCTGAGGATCTTTTTTCT  
 TCCTTGATTTTGTACTCAAAATGTTCTATAGTTTGAACCTTTCAGGATCTCCCTGAATCTTTGAAGATA  
 ATATGGAACTTGGATGAACAATTTTCATACCTCCTGACACTGGATAATAAGCTCTTGACAGACTGATGA  
 TGAAGAGGAAGCAGGCTTACTGGAGCTTTTAAAGTCTCAGATCTGTGATAATGCCGCTCTCTATGCACAG  
 AAATATGACGAAGAGTTTACGCGGTACCTCCCTCGCTTGTGCACAGTATCTGGAACCTACTCGTTACAA  
 CAGGGCGAGAAGTTAAATATGACTTGTGGTTAGCAATGCAATTCAGTTTCTGGCTTCAGTTTGTGAAAAG  
 GCCACATTATAAGAATCTGTTGAGGACCAGAACCGCTGACAAGTATCTGTGAAAAAGTTATTGTGCCT  
 AACATGGAATTTAGAGCTGCTGATGAAGAAGCTTTTGAAGATAATTCTGAGGAGTACATACGGAGGGATT  
 TGAAGGCTCTGATATTGATACTAGACGCAGGGCTGCTTGTGATCTTGTACGAGGATTATGCAAAATTTT  
 TGAAGGCTCTGTGACAGGAATCTTCTCTGGTTATGTTAATTCATGCTCCAGGAGTATGCAAAAACCCG  
 TCTGTCAACTGGAACACAAAGATGCAGCTATTTACCTTGTACATCTTTGGCATCAAAAGCCAGACAC  
 AGAAGCATGGAATCACGCAAGCCAATGAACTTGTAAACCTAACTGAATTTTTCTGGAATCACATACTTCC  
 TGATTTAAATCAATAATGTGAATGAGTTTCTGTGCTTAAAGCTGATGGTATCAAAATATATTATGATT  
 TTTAGGAATCAAGTACAAAAGAGCACCTCCTAGTCTCTATTCCCTCTTGATCAGTACCTGGAGGCTG  
 AGAGTATTGTCGTCACACTTATGCCGCACATGCTCTCGAAAGGCTGTTCACTATGAGAGGGTCAAACAA  
 TACCACCTTTTTACAGCTGCAGAAATCGCACCGTTTGTGAGATTCTGTAACAAACCTTTTTCAAAGCT  
 CTCACACTTCTGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTCTCCCTCTGC  
 AAGAGGCCATCATCCCTATATCCCACTCTCATCACGAGCTCACACAGAAGCTGCTGGCTGTTAGTAA  
 GAATCCCAGTAAACCTCATTTCATCACTACATGTTTGAAGCAATATGCTTGTCTATAAGAATAACCTGC  
 AAAGCTAACCTGCTGCTGTTGTGAATTTTGGAGGGCTCTGTTTCTAGTGTTCAGTATGATCTTACAAA  
 ATGATGTACAAGAGTTTATCCCATATGTCTTCAAGTATGCTTTACTTCTGGAAACACATAAAAATGA  
 TATCCCGTCTTCTATATGGCCTTGTTCACCACTCCTTCAGCCAGTACTGTGGAAAGGACAGGAAAC  
 ATCCCTGCTCTAGTGGGCTGCTCCAGGCATTCTTAGAACGAGGCTCAAGTACAATAGCAACTGCTGCAG  
 CTGACAAAATCCTGGATTACTGGGTGCTTCCAGAAGCTGATTGCATCCAAGGCAAACGATCACCAAGG  
 TTTCTATCTTCAACAGTATAATCGAACACATGCCTCCTGAATCAGTTGACCAGTATAGGAAGCAGATC  
 TTCATTCTACTATTCAGAGACTGCAAACTCCAAGACCACCAAGTTTATCAAGAGTTTCTTAGTGTTTA  
 TTAACCTATATTGCATTAAGTATGGGGCACTAGCATTACAAGAAATATTTGATGGCATACAACAAAAAT  
 GTTTGGAATGGTTTTGGAAAAATCATTATCCAGAGATTCAAAAGGTATCTGGGAACTGGAGAAAAAA  
 ATCTGTGCAGTTGGCATAACCAATTACTCACAGAGTGTCCACCAATGATGGACACGGAGTACACTAAGC  
 TGTGGACTCCTTTGTTACAATCTCTCATTGGCCTGTTTGAATTACCTGAAGATGACAGCATTCTGATGA  
 AGAGCATTTTATTGACATAGAAGATACACCAGGATACCAGACTGCCTTCTCACAGCTGGCATTGCTGGT  
 AAAAAGGAACATGATCCTGTAGGTGAGTAAACAACCCCAAAATCCATCTGGCAGATCACTTCA  
 AACTGTCAACTGCTTGTCTGGAAGGGTCCCTCGATGGTGGAGCACCAGCCTCAATGCAGAAGCCTTGCA  
 GTATCTCCAAGGTTACCTGCAGGCAGCCAGTGTGACCCTGTTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

Protein Sequence: >MG215858 representing NM\_023565  
 Red=Cloning site Green=Tags(s)

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLVESVEGNQNYPLLLLTLLEKSQDNVIKVCASVTFKNYI  
 KRNWRIVEDEPNKICEADRVAIKANIVHMLSSPEIQKQLSDAISIIIGREDFPQKWPDLLTEMVNRFS  
 GDFHVINGVLRHTAHSFKRYRHEFKSNELWTEIKLVDAFALPLTNLFKATIELCSTHANDASALRILFS  
 SLILISKLFYSLNFQDLPEFFEDNMETWMNMFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDAAALYAQ  
 KYDEEFQRYLPRFVTAIWNLVTTGREVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVP  
 NMEFRAADEEAFEDNSEEYIRRDLGSDIDTRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNP  
 SVNWKHKDAAIYLVTSLASKAQTQKHGITQANELVNLTEFFVNHILPDLKSNNVNEFPVLKADGIKYIMI  
 FRNQVPKEHLLVSIPLLIHLEAESIVVHTYAAHALERLFTMRGSNNTTLFTAEEIAPFVEILLTNLFKA  
 LTLPGSSENEYIMKAIMRSFLLQEAIIPIYIPTLITQLTQKLLAVSKNPSKPHFNHYMFEAICLSIRITC  
 KANPAAVVNFEEALFLVFTAILQNDVQEFIPYVFQVMSLLLETHKNDIPSSYMALEFPHLLQPVWERTGN  
 IPALVRLQLAFLERGSSTIATAAADKIPGLLGVFQKLIASKANDHQGFYLLNSIIHMPPEVDQYRKQI  
 FILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKIIPEIQKVSNGVEKK  
 ICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDSIPDEEHFIDIEDTPGYQTFASQLAFAG  
 KKEHDPVGMVNNPKIHLAQSLHKLSTACPRVPSMVSTSLNAEALQYLQGYLQAASVTLL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

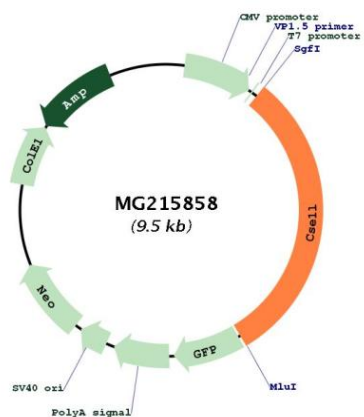


ACCN: NM\_023565

ORF Size: 2913 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_023565.3</a> , <a href="#">NP_076054.1</a>
<b>RefSeq Size:</b>	3604 bp
<b>RefSeq ORF:</b>	2916 bp
<b>Locus ID:</b>	110750
<b>UniProt ID:</b>	<a href="#">Q9ERK4</a>
<b>Cytogenetics:</b>	2 87.22 cM
<b>Gene Summary:</b>	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]

## Product images:



Circular map for MG215858