

Product datasheet for **RG211478**

Cellular Apoptosis Susceptibility (CSE1L) (NM_001316) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cellular Apoptosis Susceptibility (CSE1L) (NM_001316) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CSE1L
Synonyms:	CAS; CSE1; XPO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG211478 representing NM_001316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCTCAGCGATGCAAACTGCAAACTAACAGAATATTTAAAGAAAACACTTGATCTGATCCTG
 CCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGAAATCAGAATTATCCACTGTTGCTTTT
 GACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCAGTAACATTCAAAAACTATATT
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 GTATCTCCAAGGTACCTTCAGGCAGCCAGTGTGACTGCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211478 representing NM_001316
 Red=Cloning site Green=Tags(s)

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLSVEGNQNYPLLLLTLLEKSQDNVIKVCASVTFKNYI
 KRNWRIVEDEPNKICEADRVAIKANIVHMLSSPEIQKQLSDAISIIGREDFPQKWPDLLTEMVNRFS
 GDFHVINGVLRHTAHSFKRYRHEFKSNELWTEIKLVDAFALPLTNLFKATIELCSTHANDASALRILFS
 SLILISKLFYSLNFQDLPEFFEDNMETWMNMFHTLLTLDNKLLQTDDEEEAGLELLKSQICDAAALYAQ
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 KANPAAVVNFEEALFLVFTEILQNDVQEFIPYVFQVMSLLLETHKNDIPSSYMALFPHLLQPVWERTGN
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 FILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKIIPEIQKVSNGVEKK
 ICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQTFASQLAFAG
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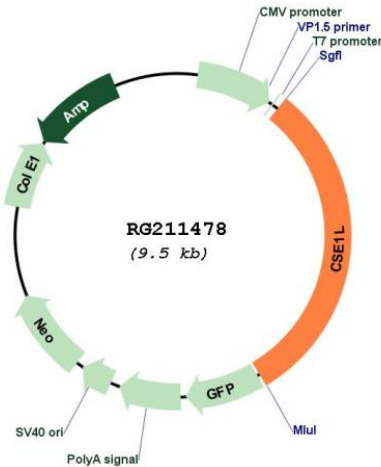
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001316

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_001316.4](#)

RefSeq Size: 3579 bp

RefSeq ORF: 2916 bp

Locus ID: 1434

UniProt ID: [P55060](#)

Cytogenetics:	20q13.13
Domains:	IBN_NT, CAS_CSE1
Protein Families:	Druggable Genome
Gene Summary:	<p>Proteins that carry a nuclear localization signal (NLS) are transported into the nucleus by the importin-alpha/beta heterodimer. Importin-alpha binds the NLS, while importin-beta mediates translocation through the nuclear pore complex. After translocation, RanGTP binds importin-beta and displaces importin-alpha. Importin-alpha must then be returned to the cytoplasm, leaving the NLS protein behind. The protein encoded by this gene binds strongly to NLS-free importin-alpha, and this binding is released in the cytoplasm by the combined action of RANBP1 and RANGAP1. In addition, the encoded protein may play a role both in apoptosis and in cell proliferation. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]</p>