

Product datasheet for SC109110

Cellular Apoptosis Susceptibility (CSE1L) (NM_001316) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cellular Apoptosis Susceptibility (CSE1L) (NM_001316) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cellular Apoptosis Susceptibility
Synonyms:	CAS; CSE1; XPO2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109110 sequence for NM_001316 edited (data generated by NextGen Sequencing)

```

ATGGAACTCAGCGATGCAAATCTGCAAACACTAACAGAATATTTAAAGAAAACACTTGAT
CCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGAAATCAG
AATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTA
TGTGCTTCAGTAACATTCAAAAATATATTTAAAGGAACTGGAGAATTGTTGAAGATGAA
CCAAACAAAATTTGTGAAGCCGATCGAGTGGCCATTAAAGCCAACATAGTGCACCTTGATG
CTTAGCAGCCCAGAGCAAATTCAGAAGCAGTTAAGTGATGCAATTAGCATTATTGGCAGA
GAAGATTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTTCAGAGT
GGAGATTTCCATGTTATTAATGGAGTCCCTCCGTACAGCACATTATTAAAAAGATAC
CGTCATGAATTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTCTGGATGCCTTT
GCTTTGCCTTTGACTAATCTTTTTAAGGCCACTATTGAACTCTGCAGTACCCATGCAAAT
GATGCCTCTGCCCTGAGGATTCTGTTTTCTCCCTGATCCTGATCTCAAATTTGTTCTAT
AGTTTAACTTTTCAAGATCTCCCTGAATTTTTTGAAGATAATATGGAACTTGGATGAAT
AATTTTCATACTCTTAAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAA
GCCGGCTTATTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAA
AAGTACGATGAAGAATCCAGCGATACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTA
CTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTTGGTAAGTAATGCAATTCATTT
CTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAACACGCTG
ACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAA
GCATTTGAAGATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGAT
ACTAGACGCAGGGCTGCTTGTGATCTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCT
GTGACAGGAATCTTCTCTGGTTATGTTAATCCATGCTGCAGGAATACGCAAAAAATCCA
TCTGTCAACTGGAACACAAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCATCAAAA
GCCCAAACACAGAAGCATGGAATTACACAAGCAAATGAACTTGTAACCTAACTGAGTTC
TTTGTGAATCACATCCTCCCTGATTTAAAATCAGCTAATGTGAATGAATTTCTGTCTCT
AAAGCTGACGGTATCAAATATATTATGATTTTTAGAAATCAAGTGCCAAAAGAATCTT

```



[View online >](#)

TTAGTCTCGATTCTCTCTTGATTAATCATCTTCAAGCTGAAAGTATTGTTGTTCACT
TACGCAGCTCATGCTCTTGAACGGCTCTTACTATGCGAGGGCCTAACAAATGCCACTCTC
TTTACAGCTGCAGAAATCGCACCGTTTGTGAGATTCTGCTAACAAACCTTTTCAAAGCT
CTCACACTTCTGGCTCTCAGAAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTT
TCTCTCTACAAGAAGCCATAATCCCCTACATCCCTACTCTCATCACTCAGCTTACACAG
AAGCTATTAGCTGTTAGTAAGAACCAGCAAACCTCACTTTAATCACTACATGTTTGAA
GCAATATGTTTTATCCATAAGAATAACTTGCAAAGCTAACCCCTGCTGCTGTTGTAATTTT
GAGGAGGCTTTGTTTTGGTGTACTGAAATCTTACAAAATGATGTGCAAGAATTTATT
CCATACGTCTTTCAAGTGATGTCTTTGCTTCTGAAACACACAAAAATGACATCCCGTCT
TCCTATATGGCCTTATTTCTCATCTCCTTCAAGCAGTCTTTGGGAAAGAACAGGAAAT
ATTCCTGCTCTAGTGAGGCTTCTCAAGCATTCTTAGAACGCGGTTCAAACACAATAGCA
AGTGCTGCAGCTGACAAAATTCCTGGGTTACTAGGTGCTTTTCAAGAGCTGATTGCATCC
AAAGCAAATGACCACCAAGGTTTTATCTTCTAACAGTATAATAGAGCAGATGCCTCT
GAATCAGTTGACCAATATAGGAAACAAATCTTCTTCTGCTATTCCAGAGACTTCAGAAT
TCCAAAACAACCAAGTTTATCAAGAGTTTTTAGTCTTTATTAATTTGTATTGCATAAAA
TATGGGGCACTAGCACTACAAGAAATATTTGATGGTATACAACCAAAAATGTTTGAAGT
GTTTTGAAAAAATTATTATTCCTGAAATTCAGAAAGTATCTGGAATGTAGAGAAAAAG
ATCTGTGCGGTTGGCATAACCAATTAACAGAATGTCCCAATGATGGACTGAG
TATACCAAATGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTGGATTACCCGAA
GATGATACCATTCTGATGAGGAACATTTATTGACATAGAAGATACACCAGGATATCAG
ACTGCCTTCTCACAGTTGGCATTGCTGGGAAAAAGAGCATGATCCTGTAGGTCAAATG
GTGAATAACCCCAAAATTCACCTGGCACAGTCACTTACAAGTTGCTACCGCCTGTCCA
GGAAGGTTCCATCAATGGTGAGCACAGCCTGAATGCAGAAGCGCTCCAGTATCTCAA
GGGTACCTCAGGCAGCCAGTGTGACTGCTTTAA

Clone variation with respect to NM_001316.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001316 unedited
TACTATTTTGAATACGACTTCACTATAGGGCGCCGCAATTCGCGGAGTTGAATGT
GAGGCGGAGCGGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCCTC
CTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACCTCAGCGATGCAAATCTGCA
AACACTAACAGAATATTTAAAGAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGC
TGAGAAATTTCTTGAATCTGTTGAAGGAAATCAGAATTATCCACTGTTGCTTTTGACATT
ACTGGAGAAGTCCAGGATAATGTTATCAAAGTATGTGCTTCAAGTAACTTCAAAAATA
TATTTAAAGGAACTGGAGAATTGTTGAAGATGAACCAACAAAATTTGTGAAGCCGATCG
AGTGGCCATTAAGCCAACATAGTGCATTGATGCTTAGCAGCCAGAGCAAATTCAGAA
GCAGTTAAGTGATGCAATTAGCATTATTGGCAGAGAAGATTTCCACAGAAATGGCCTGA
CTTGCTGACAGAAATGGTGAATCGCTTTCAGAGTGGAGATTTCCATGTTATTAATGGAGT
CCTCCGTACAGCACATTATTATTTAAAGATACCGTCATGAATTTAAGTCAAACGAGTT
ATGGACTGAAATTAAGCTTGTCTGGATGCCTTTGCTTTGCTTTGACTAATCTTTNTAA
GGCCACTATTGAACTCTGCAGTACCCATGCANATGATGCCTCTGCCCTGAGATCCTGTT
TTCTTCCCTGATCCTGATCTCAAATGTTCTNATAGTTAAACCTTTTANGATCTCCCCT
GAATTTTTGAAGAAATATGGAAACCTGGNATGATAATTTCACTCTCTTACATNGNATA
TAAGCTTTACAACTGATGATGAAAGAGAAGCCCGCTTATTGGAGCTCTTAAACG

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001316 unedited</p> <pre>TTCCTTTTGTCTGGACCGCGGCCCGCATNCTAGNGTCGAGTTTTTTTTTTTTTTTTTTTTC AGGTTAAAGCAACATTTAATATCCTTTACAAGATGGAATTCGTGACAAGTTCAAAAGGAA AACTTCCTTTGTTTTAATGCAGCTGTGCTCAAAAGCCTGTGATTCCTAGGAAACCATCT GGGTTTAGCCATTAGAAAAATGCAGTTTAAAGCAGTGTACACTGGCTGCCTGAAGGTA CCCTTGGAGATACTGGAGCGCTTCTGCATTCAGGCTGGTGCTCACCATTGATGGAACCCCT TCCTGGACAGGCGGTAGACAACCTGTGAAGTGACTGTGCCAGGTGAATTTGGGGTTATT CACCATTTGACCTACAGGATCATGCTCTTTTTTCCCAGCAAATGCCAACTGTGAGAAGGC AGTCTGATATCCTGGTGTATCTTCTATGTCAATAAAATGTTCTCATCAGGAATGGTATC ATCTTCGGGTAACCAAAAAGACCAATCAAAGACTGTAATAATGGAGTCCACAGTTTGGT ATACTCAGTGTCCATCATTGGGGACATTCTGTTAGTAATTTGGTTATGCCAACCGCACA GATCTTTTCTCTACATTTCCAGATACCCTTCTGAATTTCCAGGAATAATAATNTTTCCA AAACCATTCCAACATTGTTGGGTTGTATACCATCAAATATTTCTGTAGTGCTAGGGCC CCATATTTTATGCATTACAAATTAATAAAGACTAAAAACTCTTGATAAACTGGGTTGCT TTGGGATTCTGGAGTCTCTGGAATAGCACAATGAAAATTTGTTTCTATATTGGCCACT GGATTCAGGAGGCATGTGCTCTATTATACTGGTTAGAAGATAAACCCCTGCGGGCCATTG G</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001316
Insert Size:	2930 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001316.2</u> , <u>NP_001307.2</u>
RefSeq Size:	3579 bp
RefSeq ORF:	2916 bp
Locus ID:	1434
UniProt ID:	<u>P55060</u>
Cytogenetics:	20q13.13
Domains:	IBN_NT, CAS_CSE1
Protein Families:	Druggable Genome

Gene Summary:

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]

Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1).