

## Product datasheet for **SC115584**

### ELL2 (NM\_012081) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ELL2 (NM_012081) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELL2
Synonyms:	MRCCAT1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_012081, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGGGGGGACAGGGGGCTGCGGGAGGAGCAGCGCTATGGGCTGTCGTGCGGACGGCTGGGGC
AGGACAACATCACCGTACTGCATGTGAAGCTCACCGAGACGGCGATCCGGGCGCTCGAGACTTACCAGAG
CCACAAGAATTTAATTCCTTTTCGACCTTCAATCCAGTTCCAAGGACTCCACGGGCTTGTCAAAATTC
AAAAATGATCCCCCTCAATGAAGTTCATAACTTTAACTTTTATTTGTCAAATGTGGGCAAAGACAACCTC
AGGGCAGCTTTGACTGCATCCAGCAAACATTCTCCAGCTCTGGAGCCTCCAGCTCAATTGCCTGGGATT
TATACAAGATAAAATTACAGTGTGTGCAACAAACGACTCGTATCAGATGACACGAGAAAGAATGACCCAG
GCAGAGGAGGAATCCCGCAACCGAAGCACAAGTTATCAAACCCGGTGGACCATATGTAGGGAAAAGAG
TGCAAATTCGAAAGCACCTCAAGCTGTTTCAGATACAGTTCTGAGAGGAAAAGGTCAACCCCATGAA
CCCTGCAAATACAATTCGAAAGACACATAGCAGCAGCACCATCTCTCAGAGGCCATACAGGGACAGGGTG
ATTCACTTACTGGCCCTGAAGGCCTACAAGAAACCGGAGCTACTTGTAGACTCCAGAAAGATGGTGTCA
ATCAAAAAGACAAGAATCCCTGGGAGCAATTCTGCAACAGGTAGCCAATCTGAATTCTAAGGACCTCTC
ATATACCTTAAAGGATTATGTTTTAAAGAGCTTCAAAGAGACTGGCCTGGATACAGTGAATAGACAGA
CGGTCATTGGAGTCAGTGCTCTAGAAAACTAAATCCGTCTCAGAATGCTGCAGGCACCAGCCGTTTCAG
AATCTCCTGTATGTTCTAGTAGAGACGCTGTATCTTCTCCTCAGAAACGGCTTTTGGATTGAGAGTTAT
TGATCCTTTAATGAATAAAAAAGCCGAATATCTCACCTGACGAACAGAGTACCACCAACTAAATGGT
CATTTGAATCCCACAGTGAAAAATCTGCTGCAGGCCTCCCGTGCCTCCCTGCGGCTGCTGCCATCCCTA
CCCCTCCACCGCTGCCTCAACCTATCTGCCATCTCACATCCTCCTCAGATTGTAATTTCTAACTCCAA
CTCCCCTAGCACTCCAGAAGGCCGGGGGACTCAAGACCTACCTGTTGACAGTTTTAGTCAAAACGATAGT
ATCTATGAGGACCAGCAAGACAATACTCTAGGACTTCTGAAACCTTACCCCTGGTTCGGTTC
TACTAAAGTGTTCAAAGCCTATGGAAGAAAACCAATTCAATGTCTCAGAAAAGTCCAAAAAGAGTCTAA
AAAAATAAGGAAAAGGACCAATAAAAAAGCAGCAGATTGAGACTATTGAGGAAAAGGAGGAAAGTCTT
AAGAGAGAAGAGGAAATTGCCAAGCTAAATAACTCCAGTCAAATTCAGTGGAGGAGTTAAAGAGGATT
GCACTGCCTCCATGGAACCTTCAGCAATTGAACTCCAGATTATTTGATAAAATATATCGCTATCGTCTC
CTATGAGCAACGCCAGAATTATAAGGATGACTTCAATGCAGAGTATGATGAGTACAGAGCTTTGCATGCC
AGGATGGAGACTGTAGCTAGAAGATTTCAAAGTATGACAAAAGAAAGCGCTTTCTCCAGGCTCAA
AAGAGTATCAGAAATGTTTATGAAGAAGTCTTACAAGAATATCAGAAGATAAAGCAGTCTAGTCCCAATTA
CCATGAAGAAAAATACAGATGTGAATATCTTCATAACAAGCTGGCTCACATCAAAGGCTAATAGGTGAA
TTTGACCAACAGCAAGCAGAGTCATGGTCTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_012081 unedited

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TTTGTAAATACGACTCACTATAGGGCGCCGCAATTCGGCACGAGGATGGCCCTAGCAGT
GGCGGCGGCTGCAGAAGCCCAAGCAGCCGCGCCGAGTGGAGGCTAGAGCCGGAGCGGC
GGCGGCGGCGGCACCCCGGGGAGTTTAAAGATGGCGGCGGGGGGACAGGGGGCCTGCGGG
AGGAGCAGCGCTATGGGCTGTCGTGCGGACGGCTGGGGCAGGACAACATCACCGTACTGC
ATGTGAAGCTCACCGAGACGGCGATCCGGGCGCTCGAGACTTACCAGAGCCACAAGAATT
TAATTCCTTTTCGACCTTCAATCCAGTTCCAAGGACTCCACGGGCTTGTCAAAATTC
AAAAATGATCCCCCTCAATGAAGTTCATAACTTTAACTTTTATTTGTCAAATGTGGGCAAAG
ACAACCCTCAGGGCAGCTTTGACTGCATCCAGCAAACATTCTCCAGCTCTGGAGCCTCCC
AGCTCAATTGCCGTTGGATTTATACAAGATAAAATTACAGTGTGTGCAACAAACGACTCGT
ATCAGATGACACGAGAAAGAATGACCCAGGCAGAGGAGGAATCCCGCACCGAAGCACAA
AAGTTATCAAACCGTTGGACCATATGTTAGGGAAAGAGTGCAAATTCGAAAGCACCTC
AAGCTGTTTCAGATACAGTTCCTGAGAAGAAAAGGTCAACCCCATGAACCTTGAATA
CAATTCGAAAGACACTTAGCAGCAGCACCATCTCTCAGAGGCCATACAGGGACAGGGGG
ATTCACTTACTGGCCCTGAAGGCCTACAGGAAACCGGGACCTACTTGTAGACTCCAGAA
GGATGTTGTCATTCANAAGACAANGACTCCCTGGAAGCATTCTGCACCAGTTAGCCATT
TGAT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_012081 unedited ACGAGGCCGCATTCTAAGTCGAGTTTTTTTTTTTTTTTTTTTTCTGGAAGAAAACATCTTTA TTAAAGACACTACCAAAATTTGGCAAACATTTCAAACAGATTTGTAACATAATGCTT CCCTTTTCAACTGGCAGCACTTTGAAAAGACAATACAATAAGACAATACAACCTTGAATCA ACATTAATTTCAAATCCTTATATTTTTGACCACATAACTTATGTTCCCACATGATAAAAC AAGTGACAGTTTTAAATCAATGTCAACAGATAAACTCCATGAAATGAAAGTTTGCCTGTT TGATGAATCACAGTATGCTATGGTTAAATATATCCACTCTTTTTATATTCTGGCACCA GGATGAAAAAAAATCTTTAAATATACCTCTTATGCAGGTAATCCTCTTTGCATAT CTGTCTTGAAAAAATACTTTATAGCAGTATATAAATAGGTCACCTACACATTCCATTTTA TAATCATCGCGCCAAAACATAACATCTGTTTCATTCTCATGACATACCAATGTTTGCCCC AACATTAACAAAGCTGACCAACACTCGCTGAAATGGAAACGCTCTTGCTCTCCCAACAA AAGTACCATCTTGCCACAAGAAACACCCCAAAAAACCTAAACACCCCTACAGTGACCCTC GCCAGTTGTCAAACCTGAGCGCTGGACCACTAAGAGTAACACCTTTTTTCTTAAATGC CCGCTTACATACACCACCTGTGGACACATACAGATCGAGCACCCACTCTCAAAGCCGG CAGGGAACACAATGCTCCCTTGTCTAACAAGTGGGAACAGGTAATTAATGATTACCC CCTTTGTACACAACCTAACACCTTAAGGTACCATNGTAAGGGCGGTTAAATTGCAAGG CGGATTTACTGGCCTAAACAAGTCACCCTGTCTTACAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012081
<b>Insert Size:</b>	3380 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_012081.3</a></u> , <u><a href="#">NP_036213.1</a></u>
<b>RefSeq Size:</b>	3767 bp
<b>RefSeq ORF:</b>	1923 bp
<b>Locus ID:</b>	22936
<b>UniProt ID:</b>	<u><a href="#">O00472</a></u>
<b>Cytogenetics:</b>	5q15
<b>Protein Families:</b>	Transcription Factors

**Gene Summary:**

Elongation factor component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Component of the little elongation complex (LEC), a complex required to regulate small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III (PubMed:22195968). Plays a role in immunoglobulin secretion in plasma cells: directs efficient alternative mRNA processing, influencing both proximal poly(A) site choice and exon skipping, as well as immunoglobulin heavy chain (IgH) alternative processing. Probably acts by regulating histone modifications accompanying transition from membrane-specific to secretory IgH mRNA expression. [UniProtKB/Swiss-Prot Function]