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Product datasheet for SC110169

ELL3 (NM_025165) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELL3 (NM_025165) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELL3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_025165, the custom clone sequence may differ by one or more nucleotides

ATGGAGGAGCTCCAGGAGCCTCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGACTAGCC
TCTTACTGCTCAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTCAGCGGCAACAGGTACGGCC
GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTGCCTCTTCTCC
TTCATAGTGTCCCAGTGTTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTTGTGTGCCAACGCTTCCTCA
GGTCTGGGCCTAACAGCCTCCACTGCCTGGGCTCACTCAGGGAGCGCCTCATTATTTGGGCAGCCATGGA
TTCTATCCCAGCCCCATCATCAGTTCAGGGACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGG
CAGAACACAGGAGGCTATTCTGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTCAG
TGTCAGATCCACTGGCAAGCAACCAAGGACAGTCACTCCCAGGATCCTCAAGGGAGCACATGGCACAGTG
GGAAGTGAGAAGCCAGACCCATGTTCCAAACAGAGAACCTGTTCAGGCACTGCCTTCCTCTGCCAGCCGG
AAACGTCTGGACAAGAAACGTTCAGTGCCTGTAGCCACTGTAGAACTGGAAGAAAAGAGGTTCAGAACTC
TGCCTTTAGTGCCAAGCCCCCTACAAGGCCTGACCAATCAGGATTTACAAGAGGGAGAAGATTGGGAGCA
AGAAGATGAGGACATGGACCCCAGATTAGAACACAGTTCCTCAGTTCAAGAAGATTCTGAATCCCCAAGT
CCTGAAGATATACCAGACTACCTCCTGCAATACAGGGCCATCCACAGTGCAGAACAGCAACATGCCTATG
AGCAGGACTTTGAGACAGATTATGCTGAATACCGCATCCTGCATGCCCGTGTTGGGACTGCAAGCCAAAG
GTTCATAGAGCTGGGAGCAGAGATTAAAAGAGTTCGGCGAGGAACTCCAGAATACAAGGTCCTGGAAGAC
AAGATAATCCAGGAATATAAAAAGTTCAGGAAGCAGTACCCAAGTTACAGAGAAGAAAAGCGTCGCTGTG
AGTACCTTCACCAGAAATTGTCCCACATTAAAGGTCTCATCCTGGAGTTTGAGGAAAAGAACAGGGGCAG
CTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_025165 unedited
TTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGGTGGTGGCCCTC
GCCTGTGGCCCCCGTGCTGCTTGCACTCGAACTCGTCGCCATGGAGGAGCTCCAGGAGCC
TCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGACTAGCCTCTTACTGCT
CAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTCAGCGGCAACAGGTACGGCC
GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTG
CCTCTTCTCCTTCATAGTGTCCCAGTGTTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCT
TGTGTGCCAACGCTTCCTCAGGTCTGGGCCTAACAGCCTCCACTGCCTGGGCTCACTCAG
GGAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCCATCATCAGTTCAGGG
ACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTC
TGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTCAGTGTCAGATCC
ACTGGCAAGCAACCAAGGACAGTCACTCCCAGGATCCTCAAGGGAGCACATGGCACAGTG
GGAAGTGAGAAGCCAGACCCATGTTCCAAACAGAGAACCTGTTCAGGCACTGCCTTCCTC
TGCCAGCCGGNAACGTCTGGACAAGAAACGTTCAGTGCCTGTAGCCACTGTAGAACTGGA
AGAAAAGAGTTCAGAACTCTGCCTTTAGTGCCAAGCCCCCTACAGGNCCTGACCAATCAG
GATTTACCAGAGGGGAGAGATGGGNNAGCAGAAGATGAGGACATGGACCCCAGATTAGAC
ACAGTTCCTCAGNNTCAGAAGATNCTGAATNNCCCAGTCCCTGAGATTACCAGACTACTT
CTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_025165 unedited
ATGTACGCGGCCGCATCTATGATCGGTTTTTTTTTTTTTTTTTAATTTTTTAGCCATGT
TGGTAAAAGTTCATTTTCAGTACATGGGTAACACCCAGGCCCTTTCCCATTATATCCAGG
TATGCTACAAGTTCTTTTAACTCTTATCAGAAGTTATTATTACTGTTTCCTTAGAGAGGC
TACCAGGCTAAAATTCACTTAGTTTGGTTTGTCTAATGTCCTCATTATTTTATCCTGAAG
ATGATGTCATTTCTCAGGACTTGAAAATGACTTGGCTGAACTAAAGGTAAAAAAGCCAAG
CCTCTGTCACTTTTCCTAGACTCCTAGGCACAGCTATGGAGTCTTTGCACAGTGCCCATA
CCCTAAAAATTAATAATGAAAACCAAACCTCAAGAACCTATAGCAGCTCTCTACTTGCCA
CCATGGACTCCAGTGGTCAGCATAAGAAAAGCAGATAGTTGCATTCTATTTAGTTTATAG
CTGCTTTGTTCCTTTGTGTTTCACTAAGCAGAGGCTCAAAAATTCCCTTGATAACTTCAG
CTGCCCCTGTTCTTTTCCTCAAACTCCAGGATGAGACCTTTAATGTGGGACAATTTCTGG
TGAAGGTACTCACAGCGACGCTTTTCTTCTCTGTAACTAGAGTACTGCTTCCTGAACTTT
NTATATTCCTGGATTATCTTGTCTTCCAGGACCTTGTATTCTGGAGTTCCTCGCCGAACT
CTTTTAATCTCTGCTCCCAGCTCTATGACCTTAGGCTNGCAGTCCCACACGGGCATGCAG
GATGCGGTATTCAGCATAATCTGTCTCAAAGTCCTGCTCATAGGCATGTTGCTAGTCTGC
ACTGAGAATGCCCCTGNATAGCAAGAAGTATTCTGGTATTTCCTCAGGACTCTGGGATTC
AAAATCTTCTGTACTGTAGAACTGTGTTCTATTCTGGGGGTCATGTCCTTATCTTCTTGC
TCCAATNTCTTTCCCTCTGGAAATCCTGATTGGNCAGCGCTTGTAGGGGCTT

Restriction Sites: NotI-NotI

ACCN: NM_025165

Insert Size: 1750 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:	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_025165.1, NP_079441.1
RefSeq Size:	2127 bp
RefSeq ORF:	2127 bp
Locus ID:	80237
UniProt ID:	Q9HB65
Cytogenetics:	15q15.3
Protein Families:	Transcription Factors
Gene Summary:	Enhancer-binding elongation factor that specifically binds enhancers in embryonic stem cells (ES cells), marks them, and is required for their future activation during stem cell specification. Does not only bind to enhancer regions of active genes, but also marks the enhancers that are in a poised or inactive state in ES cells and is required for establishing proper RNA polymerase II occupancy at developmentally regulated genes in a cohesin-dependent manner. Probably required for priming developmentally regulated genes for later recruitment of the super elongation complex (SEC), for transcriptional activation during differentiation. Required for recruitment of P-TEFb within SEC during differentiation. Probably preloaded on germ cell chromatin, suggesting that it may prime gene activation by marking enhancers as early as in the germ cells. Promoting epithelial-mesenchymal transition (EMT) (By similarity). 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). [UniProtKB/Swiss-Prot Function]