

Product datasheet for **RG200765**

ELL3 (NM_025165) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: ELL3 (NM_025165) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: ELL3
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG200765 representing NM_025165
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGCTCCAGGAGCCTCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGACTAGCC
 TCTTACTGCTCAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTGAGCGGCAACAGGTACGGCC
 GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCAGGCCCTGGTTGGTCTGCTCTTCTCC
 TTCATAGTGTCCCAGTGTGTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTTGTGTGCCAACGCTTCTCA
 GGTCTGGGCCTAACAGCCTCCACTGCCTGGGCTCACTCAGGGAGCGCCTATTATTTGGCAGCCATGGA
 TTCTATCCCAGCCCCATCATCAGTTCAGGGACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGG
 CAGAACACAGGAGGCTATTCTGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTCAG
 TGTGAGATCCACTGGCAAGCAACCAAGGACAGTCACTCCAGGATCCTCAAGGGAGCACATGGCACAGTG
 GGAAGTGAGAAGCCAGACCCATGTTCCAAACAGAGAACCTGTTCCAGGCACTGCCTTCTCTGCCAGCCGG
 AAACGCTGAGACAAGAAACGTTCAAGTGCCTGTAGCCACTGTAGAAGTGGAAAGAAAAGAGTTTCAAACTC
 TGCCTTTAGTGCCAAGCCCCCTACAAGGCTGACCAATCAGGATTTACAAGAGGGAGAAGATTGGGAGCA
 AGAAGATGAGGACATGGACCCAGATTAGAACACAGTTTCTCAGTTCAAGAAGATTCTGAATCCCCAAGT
 CCTGAAGATATACCAGACTACCTCCTGCAATACAGGGCCATCCACAGTGCAGAACAGCAACATGCCTATG
 AGCAGGACTTTGAGACAGATTATGCTGAATACCGCATCCTGCATGCCCGTGTGGGACTGCAAGCCAAAG
 GTTCATAGAGCTGGGAGCAGAGATTAAGAGTTTCGGCGAGGAACTCCAGAATACAGGTCTGGAAAGAC
 AAGATAATCCAGGAATATAAAAAGTTTCAGGAAGCAGTACCCAAGTTACAGAGAAGAAAAGCGTCGCTGTG
 AGTACCTTCACCAGAAATTGTCCACATTAAGGTCTCATCCTGGAGTTTGGAGAAAAGAACAGGGGCAG
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200765 representing NM_025165
Red=Cloning site Green=Tags(s)

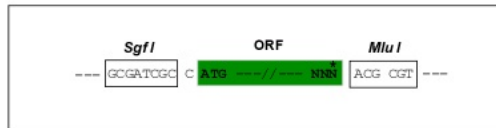
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MEELQEPLRGQLRLCFTQAARTSLLLLRLNDAALRALQECQRQQVVPVIAFQGHRGYLRLPGPGWSCLFS
FIVSQCCQEGAGGSLDLVQRFRLRSGPNSLHCLGSLRERLIIWAAMDSIPAPSSVQGHNLTEDARHPESW
QNTGGYSEGDVAVSQPQMALEEVSVDPLASNQGSPLGSSREHMAQWEVRSQTHVPNREPQALPSSASR
KRLDKKRSVPVATVELEEKRFRTLPLVPSPLQGLTNQDLQEGEDWEQEDEDMDPRLEHSSSVQEDSESPS
PEDIIPDYLLQYRAIHSAEQQHAYEQDFETDYAEYRILHARVGTASQRFIELGAEIKRVRRTPEYKVLED
KIIQEYKFRKQYPSYREEKRRCEYLHQKLSHIKGLILEFEEKNRGS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_025165

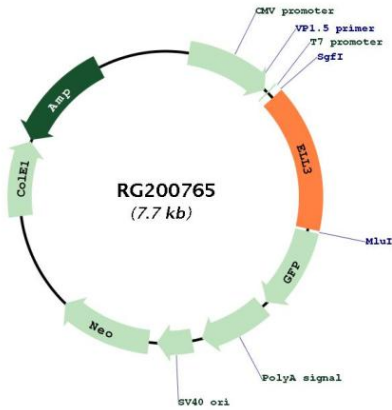
ORF Size: 1191 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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:	NM_025165.3
RefSeq Size:	2127 bp
RefSeq ORF:	1194 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]

Product images:



Circular map for RG200765