

Product datasheet for **RG206204**

ELL2 (NM_012081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELL2 (NM_012081) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELL2
Synonyms:	MRCCAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206204 representing NM_012081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGCGGGGGGACAGGGGCGCTGCGGGAGGAGCAGCGCTATGGGCTGTCGTGCGGACGGCTGGGGC
 AGGACAACATCACCGTACTGCATGTGAAGCTCACCGAGACGGCGATCCGGGCGCTCGAGACTTACCAGAG
 CCACAAGAATTTAATTCCTTTTCGACCTTCAATCCAGTTCCAAGGACTCCACGGGCTTGCAAAATTCCTC
 AAAATGATCCCCTCAATGAAGTTCATACTTTAACTTTTATTTGTCAAATGTGGCAAAGACAACCCCTC
 AGGGCAGCTTTGACTGCATCCAGCAAACATTCTCCAGCTCTGGAGCCTCCAGCTCAATTGCCTGGGATT
 TATACAAGATAAAATTACAGTGTGTGCAACAAACGACTCGTATCAGATGACACGAGAAAGATGACCCAG
 GCAGAGGAGGAATCCCGCAACCGAAGCACAAAAGTTATCAAAACCGGTGGACCATATGTAGGAAAAGAG
 TGCAAATTCGAAAGCACCTCAAGCTGTTTCAGATACAGTTCTGAGAGGAAAAGGTCAACCCCATGAA
 CCCTGCAATACAATTCGAAAGACATAGCAGCAGCACCATCTCTCAGAGGCCATACAGGGACAGGGTG
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 ATCAAAAAGACAAGAACTCCCTGGGAGCAATTCTGCAACAGGTAGCCAATCTGAATTCTAAGGACCTCTC
 ATATACCTTAAAGGATTATGTTTTTAAAGAGCTTCAAAGAGACTGGCCTGGATACAGTGAATAGACAGA
 CGGTCAATTGGAGTCAGTGCTCTCTAGAAAATAAATCCGTCTCAGAATGCTACAGGCACCGCCGTTTCAG
 AATCTCCTGTATGTTCTAGTAGAGATGCTGTATCTTCTCCTCAGAAACGGCTTTTGGATTGAGATTTAT
 TGATCCTTTAATGAATAAAAAAGCCGAATATCTCACCTGACGAACAGAGTACCACCAACACTAAATGGT
 CATTTGAATCCACCAAGTAAAAATCGGCTGCAGGCCTCCCACTGCCCTGCGGCTGCTGCCATCCCCA
 CCCCTCCACCGCTGCCTTCAACCTATCTGCCCATCTCACATCTCCTCAGATTGTAATTTCTAACTCCAA
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 CTATGAGCAACGCCAGAATTATAAGGATGACTTCAATGCAGAGTATGATGAGTACAGAGCTTTGCATGCC
 AGGATGGAGACTGTAGCTAGAAGATTTATCAAACTAGATGCACAAAGAAAGCGCCTTTCTCCAGGCTCAA
 AAGAGTATCAGAATGTTTCATGAAGAAGTCTTACAAGAATATCAGAAGATAAAGCAGTCTAGTCCCAATTA
 CCATGAAGAAAAATACAGATGTGAATATCTTCATAACAAGCTGGCTCACATCAAAGGCTAATAGGTGAA
 TTTGACCAACAGCAAGCAGAGTCATGGTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

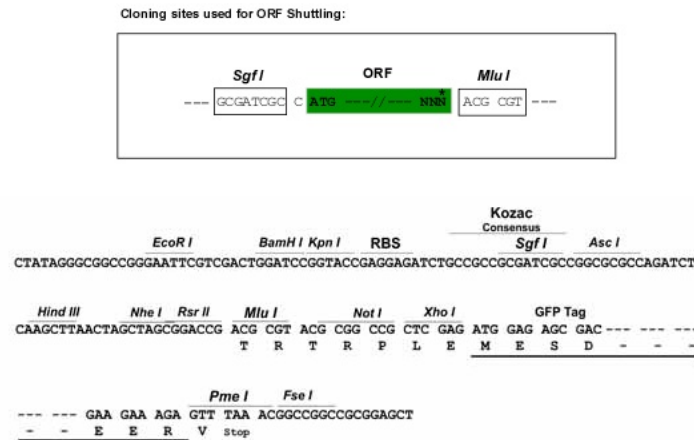
>RG206204 representing NM_012081
 Red=Cloning site Green=Tags(s)

MAAGGTGGLREEQRYGLSCGRLGQDNITVLHVKL TETAI RALETYQSHKNLIPFRPSIQFQGLHGLVKIP
 KNDPLNEVHNFNFYLSNVGKDNPGSFDCTQTFSSSGASQLNCLGFIQDKITVCATNDSYQMTREMTQ
 AEEESRNSTKVIKPGGPYVGKRVQIRKAPQAVSDTVPERKRSTPMNPANTIRKTHSSSTISQRPYRDRV
 IHLLALKAYKKPELLARLQKDGVNQKDKNSLGAILQQVANLNSKDL SYTLKDYVFKELQRDWPGEYSEIDR
 RSLESVLSRKLNPSONATGTSRSESPVCSRDAVSSPQKRLLDSEFIDPLMNKKARISHLTNRVPPTLNG
 HLNPTSEKSAAGLPLPPAAAAIPTPPPLPSTYLPISHPPQIVNSNSNSPSTPEGRGTQDLPVDSFSQND
 IYEDQQDKYTSRTSLETLPFGSVLLKCPKPMEEHNSMSHKKSKKKSKKHKEKDQIKKHDIETIEEKEEDL
 KREEEIAKLNNSSPNSSGGVKEDCTASMEPSAIELPDYLIKYIAIVSYEQRQNYKDDFNAEYDEYRALHA
 RMETVARRFIKLDARLSPGSKEYQNVHEEVLQEYQKIKQSSPNYHEEKYRCEYLHNKLAHIKRLIGE
 FDQQQAESWS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012081

ORF Size: 1920 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

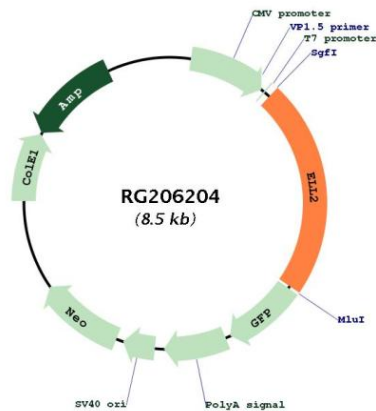
RefSeq: [NM_012081.4](#)

RefSeq Size: 3767 bp

RefSeq ORF: 1923 bp

Locus ID:	22936
UniProt ID:	O00472
Cytogenetics:	5q15
Protein Families:	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]

Product images:



Circular map for RG206204