

Product datasheet for **RG219128**

ELP4 (NM_019040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ELP4
Synonyms:	AN; AN2; C11orf19; dJ68P15A.1; hELP4; PAX6NEB; PAXNEB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG219128 representing NM_019040
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCAGTGGCAACCTGCGGTAGTGTTCGCGGAGTACTGGGTCTGCAGTGGCGACAGCCAGCAAGA
 GCAACGTCACCAAGTTCCAGAGGAGGGGTCTAGAGCCAGCGTGACCAACGACAGCGGCCCTCGACTGGT
 GTCCATTGCGGGCAGCGACCGTGGTGCCTGGAATGGACAGCTGCTGGTATCAACCGGGCTCCAGCCCTA
 GACCAGCTCTTAGTGGAGGTTAGCCGTGGAACAGTTCTTCTAATTGAGGAGGATAAATATAATTTT
 ACTCACCTTTGCTCTTCAAGTATTTCTGGCAGAAGGAATTGTCAATGGGCATACTTTGTTGGTTGCATC
 TGCTAAAGAGGATCTGCCAACATTTACAGGAACCTCCAGCACCATTACTTGATGATAAATGTAAAAAG
 GAATTTGATGAAGATGTATACAATCATAAAACACCAGAATCTAATATTAAGATGAAAAAGCTTGGCGTT
 ACCAGTTATTACCAAGATGGAGATTGGACCATATCATCTCAAGATTGGTCACTATTATGATGCATC
 AAAAGAATGCCACAAGAACTAATTGAGGCTTCAAATTGGCATGGATTTTTCTTCCAGAGAAAAATCT
 TCAACTCTCAAAGTAGAACCTGTTCTTTGACCCCTGGCTACACAAAGCTGCTTCAGTTTATCCAGAACA
 TCATTTATGAGGAAGGATTGATGGATCCAATCCTCAGAAAAAACAGAGAAACATTTAAGAATAGGAAT
 TCAGAACTTTGGCTCACCTTTATGGGAGACGATATTTGCTGTGCAGAAAAATGGTGGCAACAGTCACAGC
 CTTACCAAGTTCTCTATGTTCTCCGTGGTCTTCTGAGAACCTCTCTTTCAGCCTGCATCATCACAATGC
 CAACACATCTGATCCAGAATAAAGCCATTATTGCCCGTGTCAACACCTTGTGATGTAGTAGTTGGTCT
 GGAATCATTTATTGGTTCTGAGAGAGAACTAACCCATTGTATAAGGATTATCATGGATTGATTCATATA
 CGGCAGATTCTCGGCTTAATAACTGTATCTGTGATGAATCAGATGTCAAAGACTTAGCTTTTAAATTAA
 AAAGGAAGCTATTACCATTTGAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACGGCGGCCCTCGCCTCT
 GGGTTCAGGCGGTTCTCCCGCTCGGCCTCCCTGGTAGCTGGGATTACAGGCGCCACCACCACGCCCAG
 CTAATTTTTGTATTTTAGTAGAGATGGGGTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCT
 CAGGTGATTCATCCGCTCAGCCTCCCAAAGTGTGGAATTGCAGGCATGAGCTACCGCGCCCGGCTAG
 GGCTTTGTATTTCAAAGAGAAAGTCTAAAGTGGTGCAAGACAACACTACTTGAGACAAGAGAGAACAT
 TTATCTCTCAGGCTTCTCATACTTACTCAAGCAGAAAGACTCTGCATGGGAGAGAGGTTCTTTACAGCAT
 TCCACATTTTAAATGAGCTTCTTCAAAGGCGACTGCATTTCCTCCAGACTTGTGACACACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219128 representing NM_019040
 Red=Cloning site Green=Tags(s)

MAAVATCGSVAASTGSAVATASKSNVTSFQRRGPRASVTNDSGPRLVSIAGTRPSVRNGQLLVSTGLPAL
 DQLLGGGLAVGTVLLIEEDKYNISPLLFKYFLAEGIVNGHTLLVASAKEDPANILQELPAPLLDDKCKK
 EFDEDEVNHNKTPESNIKMIAWRYQLLPKMEIGPVSSSRFGHYDASKRMPQELIEASNWHGFFLPEKIS
 STLKVEPCSLTPGYTKLLQFIQNIIEEGFDGSDNPQKKQRNLRIGIQNLGSPWGGDDICCAENGNSHS
 LTKFLYVLRGLRLTSLSACIITMPTHLIQNKAIARVTTLSDDVVVGLESFISERETNPLYKDYHGLIHI
 RQIPRLNNLICDESDVKDLAFKLKRKLTIEAGVQWHDLSRRPRLLSGGSPASASLVAGITGAHHHAQ
 LIFVFLVEMGFHHVQAGLELLTSGDSSASASQSAGIAGMSYRARPRALYFKENKSKVGARQLLETRREEH
 LSSRLILTQAERLCMGRFFTAHFIFNELPCKGDCICLQTCQTQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019040

ORF Size: 1605 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_019040.2](#), [NP_061913.2](#)

RefSeq Size: 1984 bp

RefSeq ORF: 1275 bp

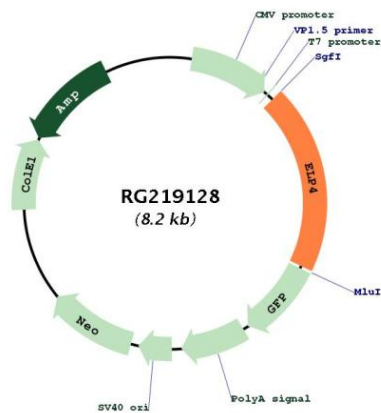
Locus ID: 26610

UniProt ID: [Q96EB1](#)

Cytogenetics: 11p13

Gene Summary: This gene encodes a component of the six subunit elongator complex, a histone acetyltransferase complex that associates directly with RNA polymerase II during transcriptional elongation. The human gene can partially complement sensitivity phenotypes of yeast ELP4 deletion mutants. This gene has also been associated with Rolandic epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Product images:



Circular map for RG219128