

Product datasheet for **MR208702**

Elp3 (NM_028811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elp3 (NM_028811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elp3
Synonyms:	2610507P14Rik; KAT9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208702 representing NM_028811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCAAAGAGGAAAGGGGACCTCAGCCCGGCTGAGCTGATGATGCTGACTATAGGAGACGTTATCA
 AGCAGCTGGTTGAAGCTCACGAGCAGGGGAAAGACGTCGATCTAAATAAGATGAAAACCAAGACAGCTGC
 CAAGTATGGCCTTGCATCCCAGCCCGCCTGGTGGATATCATCGCTGCAGTCCCTCCTCACTATCGAAAG
 ATCTTGATTCCAAAGCTAAAGGCGAAGCCCGTCAGGACTGCCAGTGGGATCGCTGTTGTGGCTGTGATGT
 GCAAACCCACAGATGTCCACACATCAGTTTCACAGGGAATATATGTATATACTGCCCGGAGGACCTGA
 CTCCGATTTTGTAGTATCAACCCAGTCTTACACGGGCTATGAGCCAATTCATGAGAGCTATCCGTGCT
 AGATATGACCCTTTCTGCAGACAAGACACCGGATAGAGCAGCTAAAGCAGCTTGGTCACAGTGTGGATA
 AGGTGGAGTTCATCGTATGGTGGAACTTCATGGCCCTCCAGAAGAGTACAGAGATTATTTTCATCCG
 AAGTTTACACGATGCTTTATCAGGCCATACTTCAAACAATATTCAGGAGCAATCAAGTATTCTGAGAGA
 AGCTTCACAAAGTGTGTTGGAATTAACAATTGAGACCAGACCTGATTATTGCATGAAGCGGCACCTAAGTG
 ACATGTTGACTTATGGCTGCACAAGGCTGGAGATCGGAGTGCAGAGTGTCTATGAAGATGTGGCCAGAGA
 TACCAACAGGGGCCATACTGTGAAGGCAGCGTGTGAATCTTCCACCTGGCCAAAGATTCTGGTTTCAA
 GTGGTGACGCATATGATGCCTGACCTGCCGAACGTGGGACTGGAGAGAGACATTGAGCAGTTTATAGAAT
 TTTTCGAGAACCCTGCTTTTCGTCCTGATGGTTTGAAGCTCTACCAACCCTGGTTATCCGTGGAAGTGG
 TCTGATGAGCTGTGAAATCAGGAAGTACAGGAGCTATTCTCCAGTGACCTGATTGAGCTGGTGGCT
 CGGATCTAGCCCTTGTGCCCGTGGACTCGTGTGTACCGGGTGCAGAGAGACATCCCAATGCCCTTG
 TCAGCTCAGGAGTGGAGCATGGCAACCTGCGAGAGTTGGCATTGCAAGAATGAAGCATTTGGAATACA
 GTGCCGTGATGTGAGAACCAGGGAGGTTGGAATCCAAGAAATTCATCACAGAGTGCAGGACATACCGGTC
 GAGTTGGTACGGAGAGATTATGTTGCCAATGGTGGCTGGGAACTTTCCTGTCCTACGAAGATCCTGATC
 AGGACATTCTAATTGGCCTCCTAAGGCTGCGGAAGTGTCTGAGGAAACCTCCGGTTTGAAGTGGTGG
 AGGTGTTTCCATAGTCCGAGAGCTACACGTGTATGGAAGTGTGGTCCCTGTGAGCAGCCGGGATCCCACT
 AAATTTACAGCATCAGGGTTCGGCATGCTGCTGATGGAAGAGGCAGAGAGAATCGCTCGGGAAGAGCATG
 GATCTGGGAAAATGGCAGTTATATCAGGGTTCGGCACAAGAAATTAACCGAAAGATTGGCTACAGATT
 ACAAGGCCCTATATGGTAAAGATGCTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208702 representing NM_028811
 Red=Cloning site Green=Tags(s)

MRQKRKGDLSPAELMMLTIGDVIKQLVEAHEQKDVLDLNMKTKTAAKYGLASQPRLDVIAAVPPHYRK
 ILIPKLRKAPVRTASGIAVVAVMCKPHRCPHISFTGNICICYCPGGPDSDFEYSTQSYTGYEPTSMRAIRA
 RYDPFLQTRHRIEQLKQLGHSVDKVEFIVMGGTFMALPEEYRDYFIRSLHDALSGHTSNNIHEAIKYSER
 SFTKCVGITIETRPDYCMKRHLSDMLTYGCTRLEIGVQSVYEDVARDTNRGHTVKAACESFHLAKDSGFK
 VVTHMMPDLPNVGLERDIEQFIEFFENPAFRPDGLKLYPTLVIRGTGLYELWKSGRYRSYSPDLIELVA
 RILALVPPWTRVYRVQRDIPMPLVSSGVEHGNLRELAFARMKDLGIQCRDVRTREVIQEIHHRVRYQV
 ELVRRDYVANGGWETFLSYEDPDQDILIGLLRLKRCSEETFRFELGGGVSIVRELHVVYGSVVPVSSRDP
 KFAQHGFGLLMEEAERIAREEHSGKMAVISGVGTRNYRKYRIGYRLQGPYMKMLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_028811
ORF Size:	1641 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:	<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_028811.1 , NM_028811.2 , NM_028811.3 , NP_083087.1
RefSeq Size:	2724 bp
RefSeq ORF:	1644 bp
Locus ID:	74195
UniProt ID:	Q9CZX0
Cytogenetics:	14 D1
MW:	62.8 kDa
Gene Summary:	Catalytic histone acetyltransferase subunit of the RNA polymerase II elongator complex, which is a component of the RNA polymerase II (Pol II) holoenzyme and is involved in transcriptional elongation. Elongator may play a role in chromatin remodeling and is involved in acetylation of histones H3 and probably H4. Involved in acetylation of alpha-tubulin (By similarity). May also have a methyltransferase activity. Involved in cell migration. Involved in neurogenesis. Regulates the migration and branching of projection neurons in the developing cerebral cortex, through a process depending on alpha-tubulin acetylation (PubMed:19185337). [UniProtKB/Swiss-Prot Function]