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Product datasheet for RR215011

Elp5 (NM_001001718) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elp5 (NM_001001718) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elp5
Synonyms:	DERP6; Rai12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR215011 representing NM_001001718 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCCCGCCTCCTTAGTGGTGACGACATCAGAAGGCGTCCTGAGGCGTCAGAGATGCTGGACTCGTTGT TGGCCACCGGTGGTTTGGTGCTTCTTCGAGATTCCGTGGAGTGGGAGGGGCGTGGTCTCCTGAAGGCTCT TATCAAGAAATCTGCACTTCGTGGGGAGCAAGTCCACGTTCTGGGCTGTGAGGTGAGTGAAGAAGAGTTT CGCGAAGGTCTCGGCTCTGATGTCAACAGCCGCCTAGTTTACCATGACCTCTTCAGAGACCCTCTGAACT GGTCACAACCTGGGGAAGCTGCTCCTGAAGGACCTCTAAAAGCCTTGAGATCCATGTGCAGAAGGACAGA CCGTGGCTCTGTCACCATCGCCCTTGACTCTCTCAGCTGGCTGCTATGTCACATTCCCTGTGTTACACTC TGTCAAGCCCTACATGCTCTGAGCCAGCGAAATGTAGACCCAGGTGATAACCCCCTGATAGAGCAGGTGC GGGTCCTGGGCCTCCTGCATGAAGAGCTTCATGGTCCTGGCCCCGTGGGAGCAGTGAGCAGCCTTGCTCA CACAGAGGTGACTCTGAGTGGTAAAATGGACCAGACTTCAGCCTCCATCCTCTGTCGAAGGCCCCAACAA CGTGCAACTTACCAGACTTGGTGGTTCTCCATTCTTCCTGACTTCAGCCTGGATCTCCATGAAGGTCTTC CCCTCCATTCTGAGCTACACCGGGATCCTCACACAACCCAGGTGGATCCTGCCAGTCATTTGACCTTTAA CCTTCACTTATCCAAGAAAGAAAGAGAAGCCAAAGACAGCCTCACTCTGCCTTTCCAGTTCAGCTCTGAA AAACAGCAAGCTCTGCTGCATCCAGTGCCAGGCCAGACCACTGGCCGCATCTTCTACGAGCCAGATGCTT TTGATGATGTGGACCAAGAAGACCCAGATGACGACCTAGATATT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

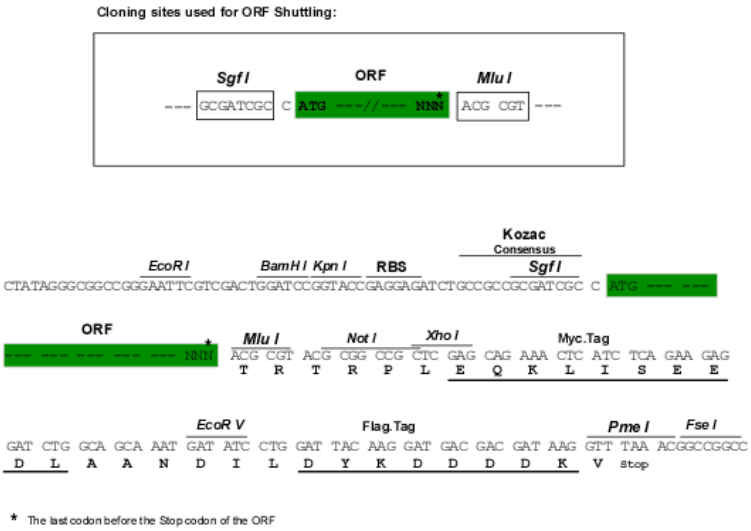
>RR215011 representing NM_001001718
Red=Cloning site Green=Tags(s)

MPRLLSGDDIRRRPEASEMLDSLLATGGLVLLRDSVEWEGRGLLKALIKKSALRGEQVHVLGCEVSEEEF
REGLGSDVNSRLVYHDLFRDPLNWSQPGEAAPEGPLKALRSMCRRTDRGSVTIALDSLSWLLCHIPCVTL
CQALHALSQRNVDPGDNPLIEQVRVLGLLHEELHGPGPVGAVSSLAHTEVTLSGKMDQTSASILCRRPQQ
RATYQTWWFSILPDFSLDLHEGLPLHSELHRDPHTTQVDPASHLTFNLHLSKKEREAKDSLTLPFQFSSE
KQQALLHPVPGQTTGRIFYEPDAFDDVDQEDPDDDLDI

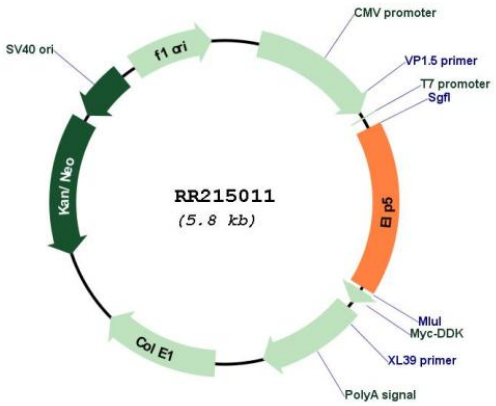
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001718

ORF Size: 954 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.
RefSeq:	NM_001001718.1, NP_001001718.1
RefSeq Size:	1397 bp
RefSeq ORF:	957 bp
Locus ID:	287446
UniProt ID:	Q6IUP3
Cytogenetics:	10q24
MW:	35.5 kDa
Gene Summary:	Acts as subunit of the RNA polymerase II elongator complex, which is a histone acetyltransferase 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 cell migration. May be involved in TP53-mediated transcriptional regulation (By similarity).[UniProtKB/Swiss-Prot Function]