

Product datasheet for **MC221902**

Elfn1 (NM_175522) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elfn1 (NM_175522) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Elfn1
Synonyms:	A930017N06Rik; AI197272; Ppp1r28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221902 representing NM_175522
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGGCACGGGTGGGTACAGCGTGGTACTTGTGGCAGCCGCCACGTTACTGCACGCGGGTGGG
 TGGCCAAAGGTGACTGCTGGCTGATTGAGGGTGACAAAGGCTTCGTGTGGTTGGCCATCTGCAGCCAGAA
 CCAGCCACCCTATGAGGCCATCCCCAACAGATCAACAACACCATCGTGGACCTGCGGCTTAACGAGAAC
 CGTATCCGCAGCGTGCAGTACGCCCTCCCTGAGCCGCTTCGAAACCTCACATACCTCAACCTCACCAAGA
 ACGAGATCGGCTACATCGAGGACGGGCTTCTCCGGCCAGTTCAACCTCCAGGTGCTGCAGCTGGGCTA
 CAACCGGCTGCGCAACCTCACGGAGGGCATGCTGCGGGGCTGAGCAAGCTCGAGTACCTGTACCTACAG
 GCCAACCTCATCGAGGTGGTATGGCCAGCGCCTTCTGGGAGTGTCCAACATCGTCAACATAGATCTCT
 CCATGAATCGCATCCAGCAGCTGGCAGCGGCACCTTCGAGGCTGACCAAGCTCTCGGTGTGAGAT
 CTACAGCAACCCCTTCTACTGCTCTGTGAGCTGTGGGTTTCTGCGCTGGCTGGCTGCCTTCACCAAC
 GCCACACAGACCCATGACCGGGTGCAGTGTGAGTCTCTCTGTCTACGAGGCTACTTCTCTGGGCC
 AGGGCCGCCACGGCCACCAACGTAGCATCCTTAGCAAGCTTCAGTCTGTGTGCACAGAGGGCTCCTACAC
 TGCTGAGGTGCTTGGCCACCCCGTCCGGTGCCAGGCCGTACAGCCGGGACATTGCCACCTCCGCT
 CCACCAGAGCCTAGTGACATGCCCTGCGCTGATGACGAGTGTCTCCGGAGATGGCACCACGCCGCTGG
 TGATCCTGACTACGCTGGTCCCTCAGACAGAGGCCCGTCCCTCCATGAAGGTCAAGCAGCTGACCAAAA
 TTCGGCCACCATCATGGTGCAGCTGCCAGCCGTTCAACCGCATGTACACGCTGGAGCAGTACAATAAC
 AGCAAATCGTTCACCGTCCAAGCTGACCCAGCCTCAGGAGGAGATCCGCTCACCAATCTTTACACAC
 TCACCAACTACACATACTGCGTGGTCTCTACCAGCTCCGGCACCCATCATAACACACACTGCCTTACCAT
 CTGCCTGCCAAAGCCGCCAGCCACGGGCCGCTGCCAGCCCTCCACAGCCACCCACTACATCATG
 ACCATCCTGGGCTGCCTCTTTGGTATGGTACTGGTCTGGGCGCTGTCTATTACTGCCTGCGCAAGCGGA
 GGCGACAAGAGGAGAAACACAAGAAGGCTGTGGCAGCGCAGCTGGCAGCTTGAAAAAACCATCATCGA
 GCTTAAGTATGGTCTGAGATTGAGGCGCTGGCTGGCTCCCCTGACCCAGGGTCCGCTGCTTGGCCCT
 GAGGCTGTGACTCGAATACCCTACCTGCCAGCCGCCACCAGTACGCTGGAGCAGTAAAGCTGGTGGAGA
 GCAGCGAGACCCCAAGGCCACCAAGGGAACTACATTGAAGTGCACGCGGGGAGCCGAGGAGCGCAG
 AGGCTGTGAGCTGAGCCGGCCAGGTGAACCCAGAGCTCAGTAGCGGAGATCTCCACCATTGCCAAGGAA
 GTGGACAGAGTCAACCAGATCATTAACTGCATCGACGCCCTCAAGTCCGAGTCCACCTCCTTCCAGG
 GCGCCAAATCAGGGGCCGTGCTGCGGGTGTGAGCCGAGCTGGTGTGCTGTCCGAGCCTCTGGCCAGCAA
 GCACAGCTTCTGTCCCCTGTATACAAAGATGCCTTTGGCCATGGTGGCCTGCAGCGGCACCACAGTGTG
 GAGGCTGCGCCCGGGCCCCGAGGGCCAGCACTTCATCCAGCGGTTCTGCACGCAGCCCTCGCACCTTCC
 GGGCTGAGGCCACCGGCACACATAAGGCCCCAGCCACCGAGCAAGTACATTGAAAAAGCTCACCTGT
 GCCCGAGACCATCCTCACTGTGACACCCGCGGCACTGTGCTGCGGGCGGAGGCCGACAAGAGTCCGCCAG
 TACGGCGAGCATCGGCACTACACCCGCTCTCACCTGCCGAGCCACCTGCCCTCCACCACCTCCAC
 CCACTCACGAGGGCTTGGGTGGCCGAAGGCATCCATCCTGGAGCCTCTGACCCGGCCACGACCCCGAGA
 CCTCGTCTACTCGCAGCTGTCCCACAGTACCACAACCTGAGCTATTATCCAGCCCGAGTACACCTGC
 AGGGCATCCCCAAGCATCTGGGAGCGTCTCAGACTGAGCCGAGGAGACAAAGGATGATGCGGAGTTCA
 TGGCGGCTGGCCACGCCCTGCGCAAGAAGTTCAGTTTGCCAAAGACGAGGACCTGCATGACATCCTAGA
 CTA**CTGGAAGGCGTGTCTGCCAGCACAA**GCCT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_175522
Insert Size: 2487 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_175522.3 , NP_780731.1
RefSeq Size:	3835 bp
RefSeq ORF:	2487 bp
Locus ID:	243312
UniProt ID:	Q8C8T7
Cytogenetics:	5 G2
Gene Summary:	Postsynaptic protein that regulates circuit dynamics in the central nervous system by modulating the temporal dynamics of interneuron recruitment. Specifically present in excitatory synapses onto oriens-lacunosum molecular (OLM) interneurons and acts as a regulator of presynaptic release probability to direct the formation of highly facilitating pyramidal-OLM synapses. Inhibits phosphatase activity of protein phosphatase 1 (PP1) complexes.[UniProtKB/Swiss-Prot Function]