

Product datasheet for **RG217802**

LUZP1 (NM_033631) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LUZP1 (NM_033631) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LUZP1
Synonyms:	LUZP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217802 representing NM_033631 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAATTTACAAGCTACAAGGAGACGGCCTCCAGCCGCCACTTGCGGTTTAAAGCTACAGAGTCTAA
GCCCGCCCTTGATGAGTTGGAGGAAGCCACAAAAACCTCCAGAAAGCAGAGGATGAACCTCTGGATCT
CCAGGACAAGGTGATTCAGGCAGAAGGTAGCAACTCCAGCATGTTGGCGGAGATTGAAGTCTGCGCCAG
CGGGTCTGAGAATTGAAGGCAAAGACGAGGAAATTAAGAGAGCAGAGGATCTGTGTCGTCTGATGAAGG
AGAACTTGAAGAGGAAGAAAACCTCACCCGGGAGCTGAAATCTGAGATTGAGCGGCTTCAGAAACGAAT
GGCTGAATTAGAGAAGCTAGAAGAGGCCTTCAGCAGGAGTAAGAATGACTGTACCCAGCTGTGCTGAGC
CTGAATGAGGAGAGAAATCTGACCAAGAAAATCTCCTCTGAGCTGGAAATGCTCAGAGTCAAAGTAAAG
AACTAGAATCTTCTGAGGACCGCCTGGATAAACTGAGCAGAGTTTAGCGTCAGAGTTAGAAAAGCTGAA
ATCATTAACTCTGAGCTTTGTAAGTGAAGAGAAAATACTTGAATGAAAAGGAGAAAAGAAAATGAGAAATTG
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GAAGGGTGGTCTGGACTACCTAAAGCAGGTAGAGAATGAAACAAGAAAACAAATCAGAAAATGAAAAGAAC
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ACTTCCAAGCCAGGCACCGAGAGTGGACTGAAGGGAAAAGTGGAGAAGACAACACGAACGTTTGTGACA
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 GGAGAGGAATAGCCATGCACCTCCAGCGGAGACAATCAGGTGGAAAAGCCATAGTGCCCTTTCAGAAGTG
 GGCTTCTCAGATGCCAGACATGTTACTGTGCGGAATGCCTGGAAGAGTAGGCGGAGACTTGAATCTTTAG
 AAGACCCCAACTCGAATAGGTAAAAACGTGGAATCTACCAATAGCAATGCCTACACCCAGAGGTCTTC
 CACAGACTTCTCAGAACTCGAACAGCCAGGTCTGCCTTTTGGAGCAGGGCACTCGAAGGGTAGGACCA
 AGTTCAGGGGATGCCCTGAGCCCTCCTCAGAAGGACCCAAAGTAGCCTCACTGTGTGAGAGGTGCTTA
 CCCGTGGAATCGGGTAGGAGACACCATCACTGTGCGAGCCTGGAACCACTCAGCAAGCATGGAGGAAGA
 AGGGGAAGACTGTACACTCAGTGTCTACAGGCAACTGCACAACCTCCCTGGATCCGCTGAACTGCCTGGG
 AAGCAGGGGCTGCCAGAGTCTGGGCGAGTACGGGCCGAGGAACGATTACGGCCAACCAGGCCCTGTGCTG
 AGGAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217802 representing NM_033631
 Red=Cloning site Green=Tags(s)

MAEFTSYKETASSRHLRFKQLQSLSRRLDELEEATKNLQKAEDELLDLQDKVIQAEAGNSSMLAEIEVLRQ
 RVLRIEGKDEEIKRAEDLCRLMKEKLEEEENLTRELKSEIERLQKRMAELEKLEEFSSRSKNDCTQLCLS
 LNEERNLTKKISSELEMLRVKVKELLESSEDRDKTEQSLASELEKLSLTLFVSRKYLNKKEKENEKLE
 IKELTQKLEQNKKMNRDYTRNASNLERNDLRIEDGISSTLPSKESRRKGGLDYLKQVENETRNKSENEKN
 RNQEDNKVKDLNQEIEKLTQIKHFESLEEELKMKSKNNDLQDNYLSEQNKNLLASQLEEIKLQIKKQ
 KELENVEGEDAFLSSKGRHERTKFRGHGSEASVSKHTARELSPQHKRERLRNREFALNNENYSLSNRQ
 VSSPSFTNRRAAKASHMGVSTDSGTQETKKTEDRFVPSSKSEGGKSREQPSVL SRYPPAAQEHKAWKG
 TSKPGTESGLKGVKTKTRTFSDTTHGSVPSDPLGRADKASDTSSETVFGKRGHV LNGSQVTQAANS GC
 SKAIGALASSRRSSSEGLSKGKKAANGLEADNSCPNSKAPVLSKYPYSCR SQENILQGFSTSHKEGVNQP
 AAVVMEDSSPHEALRCRVIKSSGREKPDSDDDL IASLVTAKLVNTTITPEPEPKPQPNRSREKAKTRGAP
 RTSLFENDKDAGMENESVKSVRASNTMELPDTNGAGVKSQRPFSPREALRSRAI IKPVI VDKDVKKIMG
 GSGTETTLEKQKPVSKPGPNKVTSSIT IYPSDSSSPRAAPGEALRERHTSTSNIQVGLAELTSVSNHVSS
 PFELSIHKHDITLQLAEAERMADGPKLRPETVVSRSII IKPSDPVERN SHAPPAETIRWKSHSAPSEV
 GFS DARHVTVRNAWKSRRDLKSL EDPPTRIGKNVESTNSNAYTQRSSTDFSELEQPR SCLFEQGT RRVGP
 SSGDAPEPSSRRTQSSLTVSEVL TRRN RVGDTITVAAWNHSASMEEEGEDCTLSVYRQLHNSLDPSELPG
 KQGLPESGRVRAEERLRPTRPCAEN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_033631

ORF Size: 3228 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_033631.2](#), [NP_361013.2](#)

RefSeq Size: 7555 bp

RefSeq ORF: 3231 bp

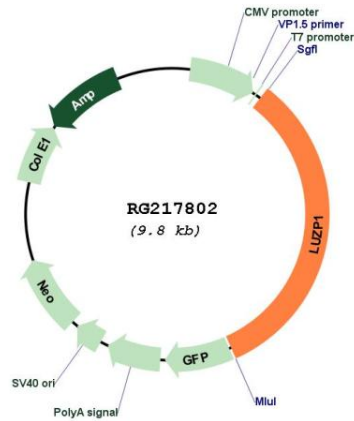
Locus ID: 7798

UniProt ID: [Q86V48](#)

Cytogenetics: 1p36.12

Gene Summary: This gene encodes a protein that contains a leucine zipper motif. The exact function of the encoded protein is not known. In mice this gene affects neural tube closure. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RG217802