

Product datasheet for **MG209990**

Lrch4 (NM_146164) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrch4 (NM_146164) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrch4
Synonyms:	2810008P14Rik; 2900069C24Rik; AI558103; LRN; LRRN4; mFLJ00248; SAP25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG209990 representing NM_146164
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCAGCAGTAGCGGGCCACTCGCCGCCGGGGGTGAGGAAGCTGCAGCTTCACTGTCTTGGCCAG
 GGTCTCCTGGTCTACCTGGGAGCCGTAGCGCAGAACGAGCCCTAGAGGAGGCTGTGGCCACCGGGACCCCT
 GAACCTGTCCAACCGGCCTTTGAAGCACTTCCCCCGGGCGCGGCCCGCAGTTACGACTTGTGACACATC
 ACCCAGGCTGACTTGTCTCGGAACCGGTTTCCCGAGGTGCCTGAGGCAGCTTGCAGCTGGTGTCCCTGG
 AAGGCTGAGCCTCTACCACAATTGCCTGAAATGCCTGAACCCAGCCTTGGGGAATCTTACAGCCCTCAC
 CTACCTCAACCTCAGCCGGAACCAAGCTGTCGTGTTGCCACCCTACATCTGCCAGCTGCCCTTCGAGTG
 CTTATCATCAGCAACAACAAGTTAGGAGCCCTGCCTCCAGACATCAGCACCTTGGGAAGCCTGCGGCAGC
 TTGATGTGAGCAGCAATGAGCTGCAGTCCCTGCCGTGGAGCTGTGTAGCCTCCGTTCCCTGCGGGATCT
 CAATGTTGGAAGAACCAAGCTCAGTACCCTGCCTGATGAGCTGGGAGACCTTCTCTGGTCCGCCTGGAT
 TTCTCCTGTAACCGCATCTCCCGAATCCCGTCTCCTTCTGCCGCTCAGGCACCTGCAGGTCGTTCTGC
 TGGATAGCAACCCCTACAGAGTCCACCTGCCAGATATGCCTGAAGGGGAAACTTCACATCTTCAAGTA
 CCTAACATGGAAGCTGGCCGGAGGGGAGCCGCCCTCGGGGACCTGGTCCCTTCCCGCCCCCAAGTTTT
 AGTCTTGGCCTGCCGAAGATTTATTTCCGGGACGTCGTTATGATGGTGGCCTGGACTCAGGCTTCCACA
 GCGTTGACAGTGGCAGCAAGAGGTGGTCAGGAAATGAGTCCACAGATGATTTTTTCAGAGCTGTCTTCCG
 GATCTCGGAGCTGGCTCGTGATCCCCGGGGGCTAGACAACTAGGAAGATGGCGCTGGCGATGGAGAC
 CTGGAGCAGATTGACTTTATTGACAGCCACGTTCTGGGAAGATGAAGATCGAAGTGCAGCTGAGGAGC
 AGCTGCCTTCTGAATTAAGCCTTGTAGCAGGGGATGTGGAGAAGCCATCTAGCAGCAGCGAGAGGAGCC
 TGCAGGGGAGGAGAGCGCGCCAGACACTTTGCAGTTGTGGCAGGAACGGGAGCGGAAGCAACAGCAA
 CAGAGTGGGGATGGGGTCCCCAGGAAGGACAGCGTCTGAAGCGGGGATCCGAGCTGCCGGGGCAG
 GTGCTTGGCCCCATCCACACAGGCCACCTGCAATGGCCACCAAAGTCCAGCACTACCCAACTGGGAGT
 TTCAGGGGGCAGGGAGCTCCACACCACCCCCACCTCCAGGACCCCTTCTGTATCTGGACCAGTG
 ACAGCTCTGTTCCAGGCCCTGGGCTCCATTCAGAGACCAAACAGTTCTCTTCCGGTCTCTTCTC
 AGAGTGGCTCTAGTCCTTCTCTCCAGAGTCTGTTTTGAGACCTCGGCCGTTTCTCAGGAGAAGGAGCT
 AATATCCCAACTTCGCCAGTCTTAGAGTCGGGCTGCAGCAGCCCTACCTGAGGACCTGGCAGAAGCT
 CTCGCCAACGGAGTCTCTTTGCCAGCTGGCGAACCAAGCTGCGGCCCGCTCTGTACCCTTCATTCATG
 TGCCCTCACCTGCTGTGCCAAAGCTCAGTGTCTCAAGTCTCGGAAGAATGTCGAGAGTTTCTAGAAAGC
 CTGTGCGAAAATGGGTGTGCTGAGGCTGACCTGTGCTCGCCCTCGGATCTCTCCGGGGACCGGCCAG
 GGGCTGCAGACCGTCTGGAGGCTGTGATCCTGGTTGGGGCAAGGCCCTCTCCAGTCCAGCCCTCT
 CTGGTCTGGTGGCTTCTCTCTTCTACGTGGTCTTCATGCTGCTGCTATGTGCTACACTCGGCT
 CCTGGGCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209990 representing NM_146164
 Red=Cloning site Green=Tags(s)

MAAAVAGPLAAGGEEAAASVSLPGSPGLPGSRSAERALEEAVATGTLNLSNRRLKHFFRGAARSYDLSDI
 TQADLSRNRFPVPEAACQLVSLLEGLSLYHNCLKCLNPALGNLTALTYLNL SRNQLSSLPPYICQLPLRV
 LIISNNKLGALPPDISTLGLRQLDVSSNELQSLPVELCSLRSLRDLNVRNQLSTLPDELGDLPLVRLD
 FSCNRISRIPVSFCRLRHLQVLLDLSNPLQSPPAQICLKGLHIFKYL TMEAGRGAALGDLVPSRPPSF
 SPCPAEDLFPGRRYDGLD SGFHSVDSGSKRWSGNESTDDF SELSFRISELARDPRGPRQPREDGAGDGD
 LEQIDFIDSHVPEDEDRSAAEEQLPSEL SLVAGDVEKPSRRREEPAGEERRRPTLQLWQERERKQQQ
 QSGGWGSPRKDSVLKRGIRAAGAGASAPSTQATCNGPPKSTTQLGVSGGQGAPTPPPTSQDPLPVSGPV
 TAPVPRPLGSIQRPNSFLFRSSSQSGSSPSSPESVLRPRPFQEKELISQLRQVLESRLQQPLPEDLAEA
 LANGVLLCQLANQLRPRSVPF IHVPSAVPKLSALKSRKNVESFLEACRKMGPVEADLCSPSDLLRGTAAQ
 GLQTVLEAVILVGGKAPLPVQPSSGLGGFLLFYVVFMLLLLYVVYTRLLGS

TRTRPLE - GFP Tag - V

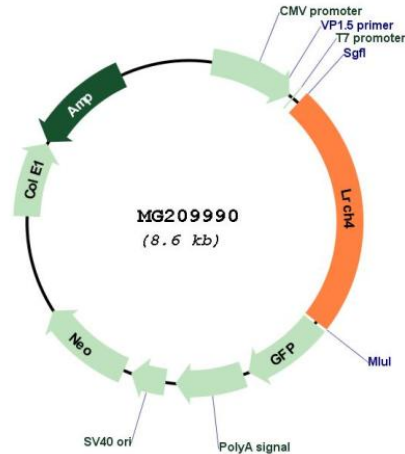
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_146164

ORF Size: 2040 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_146164.2](#)

RefSeq Size: 2439 bp

RefSeq ORF: 2043 bp
Locus ID: 231798
UniProt ID: Q921G6
Cytogenetics: 5 G2