

## Product datasheet for **MR209990**

### Lrch4 (NM\_146164) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrch4 (NM_146164) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrch4
Synonyms:	2810008P14Rik; 2900069C24Rik; AI558103; LRN; LRRN4; mFLJ00248; SAP25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209990 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCAGCAGTAGCGGGCCACTCGCCGCCGGGGGTGAGGAAGCTGCAGCTTCACTGTCTTGGCCAG  
 GGTCTCCTGGTCTACCTGGGAGCCGTAGCGCAGAACGAGCCCTAGAGGAGGCTGTGGCCACCGGGACCCCT  
 GAACTTGTCCAACCGGCCTTTGAAGCACTTCCCCGGGGCGCGGCCCGCAGTTACGACTTGTGACACATC  
 ACCCAGGCTGACTTGTCTCGGAACCGGTTTCCCGAGGTGCCTGAGGCAGCTTGCAGCTGGTGTCCCTGG  
 AAGGCTGAGCCTCTACCACAATTGCCTGAAATGCCTGAACCCAGCCTTGGGGAATCTTACAGCCCTCAC  
 CTACCTCAACCTCAGCCGGAACCAAGCTGTCGTGTTGCCACCCTACATCTGCCAGCTGCCCTTCGAGTG  
 CTTATCATCAGCAACAACAAGTTAGGAGCCCTGCCTCCAGACATCAGCACCTTGGGAAGCCTGCGGCAGC  
 TTGATGTGAGCAGCAATGAGCTGCAGTCCCTGCCGTGGAGCTGTGTAGCCTCCGTTCCCTGCGGGATCT  
 CAATGTTGGAAGAACCAAGCTCAGTACCCTGCCTGATGAGCTGGGAGACCTTCTCTGGTCCGCCTGGAT  
 TTCTCCTGTAACCGCATCTCCCGAATCCCGTCTCCTTCTGCCGCTCAGGCACCTGCAGGTCGTTCTGC  
 TGGATAGCAACCCCTACAGAGTCCACCTGCCAGATATGCCTGAAGGGGAAACTTCACATCTTCAAGTA  
 CCTAACAATGGAAGCTGGCCGGAGGGGAGCCGCCCTCGGGGACCTGGTCCCTTCCCGCCCCCAAGTTTT  
 AGTCTTGGCCCTGCCGAAGATTTATTTCCGGGACGTCGTTATGATGGTGGCCTGGACTCAGGCTTCCACA  
 GCGTTGACAGTGGCAGCAAGAGGTGGTCAGGAAATGAGTCCACAGATGATTTTTCAGAGCTGTCTTTCCG  
 GATCTCGGAGCTGGCTCGTGATCCCCGGGGGCTAGACAACTAGGAAGATGGCGCTGGCGATGGAGAC  
 CTGGAGCAGATTGACTTTATTGACAGCCACGTTCTGGGAAGATGAAGATCGAAGTGCAGCTGAGGAGC  
 AGCTGCCTTCTGAATTAAGCCTTGTAGCAGGGGATGTGGAGAAGCCATCTAGCAGCAGCGAGAGGAGCC  
 TGCAGGGGAGGAGAGCGCGGCCAGACACTTTGCAGTTGTGGCAGGAACGGGAGCGGAAGCAACAGCAA  
 CAGAGTGGGGATGGGGTCCCCAGGAAGGACAGCGTCTGAAGCGGGGATCCGAGCTGCCGGGGCAG  
 GTGCTTGGCCCCATCCACACAGGCCACCTGCAATGGCCACCAAAGTCCAGCACTACCCAACTGGGAGT  
 TTCAGGGGGCAGGGAGCTCCACACCACCCCCACCTCCAGGACCCCTTCTGTATCTGGACCAGTG  
 ACAGCTCTGTTCCAGGCCCTGGGCTCCATTCAGAGACCAAACAGTTCTCTTCCGGTCTCTTCTC  
 AGAGTGGCTCTAGTCCTTCTCTCCAGAGTCTGTTTTGAGACCTCGGCCGTTTCTCAGGAGAAGGAGCT  
 AATATCCCAACTTCGCCAGTCTAGAGTCGGGCTGCAGCAGCCCTACCTGAGGACCTGGCAGAAGCT  
 CTCGCCAACGGAGTCTCTTTGCCAGCTGGCGAACCAAGCTGCGGCCCGCTCTGTACCCTTCATTCATG  
 TGCCCTCACCTGCTGTGCCAAAGCTCAGTGCTCTCAAGTCTCGGAAGAATGTCGAGAGTTTCTAGAAAGC  
 CTGTGCGAAAATGGGTGTGCCTGAGGCTGACCTGTGCTCGCCCTCGGATCTCTCCGGGGACCGGCCAG  
 GGGCTGCAGACCGTCTGGAGGCTGTGATCCTGGTTGGGGCAAGGCCCTCTCCAGTCCAGCCCTCT  
 CTGGTCTGGTGGCTTCTCTCTTCTACGTGGTCTTCATGCTGCTGCTATGTGCTACACTCGGCT  
 CCTGGGCTCC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209990 protein sequence  
Red=Cloning site Green=Tags(s)

MAAAVAGPLAAGGEEAAASVSLPGSPGLPGSRSRAERALEEAVATGTLNLSNRRLKHFFRGAARSYDLSDI  
 TQADLSRNRFPVPEAACQLVSLLEGLSLYHNCLKCLNPALGNLTALTYLNL SRNQLSSLPPYICQLPLRV  
 LIISNNKLGALPPDISTLGSRLQLDVSSNELQSLPVELCSLRSLRDLNVRNQLSTLPDELGDLPLVRLD  
 FSCNRISRIPVSFCRLRHLQVLLDSNPLQSPPAQICLKGLHIFKYL TMEAGRGAALGDLVPSRPPSF  
 SPCPAEDLFPGRRYDGGLDSGFHSVDSGSKRWSGNESTDDF SELSFRISELARDPRGPRQPREDGAGDGD  
 LEQIDFIDSHVPEDEDRSAAEEQLPSEL SLVAGDVEKPSSSRREEPAGEERRRPTDLQLWQERERKQQQ  
 QSGGWGSPRKDSVLKRGIRAAGAGASAPSTQATCNGPPKSTTQLGVSGGQGAPTPPPTSQDPLVSGPV  
 TAPVPRPLGSIQRPNSFLFRSSSQSGSSPSSPESVLRPRPFQEKELISQLRQVLESRLQQPLPEDLAEA  
 LANGVLLCQLANQLRPRSVPFIHVPSPAVPKLSALKSRKNVESFLEACRKMVGPEADLCSPSDLLRGTAQ  
 GLQTVLEAVILVGGKAPLPVQPSSGLGGFLLFYVVFMLLLLVVYTRLLGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_146164

**ORF Size:** 2043 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:** 3081 bp

**RefSeq ORF:** 2043 bp

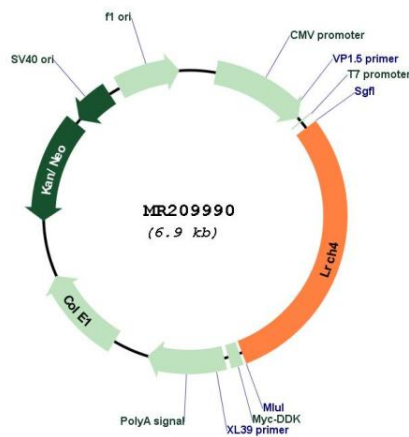
**Locus ID:** 231798

**UniProt ID:** [Q921G6](#)

**Cytogenetics:** 5 G2

**MW:** 73.2 kDa

**Product images:**



Circular map for MR209990