

## Product datasheet for **RR217489**

### Lats1 (NM\_001134543) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lats1 (NM\_001134543) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Lats1  
**Synonyms:** RGD1564085  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR217489 representing NM\_001134543  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGAGGGGTGAAAAGCCAGAAGGGTACAGACAGATGAGGCCTAAGACCTTCTCCTGCCAGCACTACT  
CTGGCAGCAGCCGACAAATGCTGCAGGAGATCCGAGAATCCCTTAGGAATTTATCAAAGCCATCTGATGC  
CGCAAAGCCGAGCATAACCTGAACAAGATGTCGACCGAAGATCCAGGCAGGTGAGAAATCCGCCCAA  
TTTGGCACACATCATAAAGCCTTGAAGAAATCGAAACTCTCTACTACCTTTCGAAACGAGACGAGTT  
CTTCCCGATCCCTTCAGAAGTTAATCCACAGATGTTTCAGGATTTGCAGGCTGTGGCTTTGATGAGGA  
TATGGTTATTCAAGCTCTTCAGAAAACCAATAACAGAAGCATAGAAGCAGCTGTTGAATTCATTAGTAAA  
ATGAGTTATCAGGATCCTCGTCGAGAGCAGATGGCTGCAGCAGCTGCCAGACCTATCAATGCCACCATGA  
AACCAGGAAATGTGCAACATTCAATTAGCCGAAAACAAAGCTGGAAGGTTCTAAAGAGTCTTTAGTTCC  
TCAGAGACACGGTCCATCTTAGGAGAAAATGTGGTTTATCGATCTGAAAGTCCCAACTCACAGGCGGAT  
GTAGGAAGACCTGTCTGGATCCGGCATTACGGCATTGTCTCAAGCTCACCAAGCAATGGACAGAGAG  
TGAACCCACCACCACCTCAAGTTAGGAGTGTACTCCTCCACCACCTCCAGGAGGCGAGACCCACC  
TCCACGAGGCACAACCTCCCTCCCTCCCTCGTGGGAGCCTAACTCTCAGACAAAGCGCTACTCTGGGAAC  
ATGGAATATGTAATCTCCGAATCTCTCCTGTTCCACCTGGGGCGTGGCAGGAGGCTACCTCCACCAC  
CTCTTAACACTTCCCCATGAATCCCCCAACCAGGGACAGAGAGGCATCAGTTCTGTTCCAGTTGGCAG  
GCAACCAATCATCATGCAAAGTACTAGCAAATTTAACTTTACACCAGGGAGACCTGGAGTTCAGAATGGT  
GGTGGTCAGACTGATTTTATCATGCACCAAAATGTTGTCCCACTGGTGTGTGAATCGGCAACCACCAC  
CACCATATCCTCTGACCCAGCTAATGGACAAAGCCCTTCTGCTTTGCAAGCAGGCGGTCTGCTGCTCC  
ACCATATTCTCAATGAAAATGTTCTCAACGATGATGGTGCCGAACAGGAACAGTCATAACATGGAG  
CTGTATAATATCAATGTCCCTGGACTGCAAACAACCTTGCCCCAGTCGTCTTCTGCCCTGTGCAATCAT  
CTCCAAGCAGTGGGCATGAAATTCCTACGTGGCAACCTAACATACCAGTGAAGTCAAATCTTTAATAA  
CCCCTAGGAAGTAGAGCAAGTCACTCTGCTAATTTCTCAGCCTTCCGCCAGCAGTTACTGCCATCACA  
CCAGCTCTATTACAGCAGCCCGTAAAAGCATGCGCGTCTGAAACCAGAGCTGCAGACTGCCTTAGCCC



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CAACCCATCCTTCTTGGATGCCACAGCCAGTTCAGACCGTTCAGCCTAGCCCTTTTTCTGAGGGTGCAGC  
 TTCAAACGTGCCAGTCATCCCACCTGTGGCGGAAGCTCCAAGCTATCAGGGCCCACCACCACCTTATCCA  
 AAACATCTGTACACCAAACCCATCTGTTCTCCATATGAGTCAGCGAGTAAACCTGCAAAGACGATC  
 AGCCTAGCTCAGCCAAGGAAGAGGATAGTGAAGAGTGGACAGTGTGACTCTGGGGATAAAGAGAA  
 GAAACAGATTACAACCTCACCTATCACTGTTCCGAAAAACAAGAAAGACGAAGAGCGAAGAGAGTCTCGC  
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 CCAGGATCAAATGAGAAAGATGCTTTGCCAGAAAGAGTCTAACTATATTGCTCTTAAAAGGGCTAAAATG  
 GACAAGTCTATGTTTGTAAAGATAAAGACATTAGGAATAGGAGCATTGTTGTAAGTCTGTCTAGCAAGAA  
 AAGTCGATACGAAAGCTTTGTATGCAACAAAACTCTACGAAAGAAAGACGTTCTGCTCCGAAATCAGGT  
 GGCTCATGTGAAAGCTGAGCGAGATATCTAGCAGAAGCTGACAACGAGTGGTGGTCCGCTTGTACTAC  
 TCATTCCAGGACAAGGACAACCTGTACTTTGTGATGGACTACATTCTGGGGGTGATATGATGAGCCTGT  
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 AAGTGTTCAAAAATGGGTTTTATTATAGAGACATTAACCTGATAACATTTTGATTGACCGAGATGGA  
 CATATTAATTGACTGACTTTGGCTTGTGCACTGGCTTCCAGTGGACACATGACTCCAAGTACTACCAGA  
 GTGGGGATCACCCACGGCAAGATAGCATGGATTTCAGTAGCGAATGGGGAGATCCTTCCAAGTGTGGTG  
 TGGGGACAGACTGAAGCCACTAGAGCGGAGAGCTGCTCGCCAGCACCAGCGATGTCTAGCTCACTCTCTG  
 GTTGGGACTCCCAACTATATAGCACCTGAAGTGTACTACGGACAGGATATACACAGCTGTGTGATTGGT  
 GGAGTGTGGTGTATTCTTTTTGAAATGTTGGTGGGACAACCTCCTTTCTTGGCACAACACCATTAGA  
 AACCCAAATGAAGGTTATCAACTGGCAAACCTCTTTCACATCCCACCTCAAGCCAAGCTCAGTCTGAA  
 GCCTCTGACCTCATTATCAAACCTTCCGAGGACCAGAAGACCGTCTAGGCAAGAACGGTGTGATGAAA  
 TAAAGGCTCATCCATTTTTAAGACCATTGATTTCTCTAGTGTCTGAGACAGCAGTCTGCTTACATACAT  
 CCCCAAAATCAGCACCCAACAGACACGTCCTCAATTTTACCCTGTTGACCCTGATAAGTTGTGGAGCGAT  
 GGTAACGAGGAAGAAAATATCAACGACACTCTGAACGGATGGTATAAAAACGGAAGACACCTGAGCATG  
 CTTTCTATGAGTTTACCTTTCCGAGGTTCTTTGATGACAATGGCTACCCATATAATTATCCAAAGCCAT  
 CGAATATGAATACGTTAGTTCCAGGGCTCAGAGCAGCAGTCCGATGAAGACGATCAACACACAGGCTCA  
 GATGTAACAACCGTGATCTAGTGTATGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR217489 representing NM\_001134543  
 Red=Cloning site Green=Tags(s)

MKRGEKPEGYRQMRPKTFPASNYSGSSRQMLQEIRESLRNL SKPSDAAKAEHNLNKMSTEDPRQVRNPPK  
 FGTHHKALQEIRNSLLPFANETSSSRIPSEVNPQMFQDLQAAGFDEDMVIQALQKTNNSIEAAVEFISK  
 MSYQDPRREQMAAAAARPINATMKPGNVQHSISRKQSWKGSKESLVPQRHGPSLGENVVYRSESPNSQAD  
 VGRPLSGSGITAFQAHPNSNGQVRNPPPPQVRSVTPPPPPRGQTPPPRGTTPPPPSWEPNSQTKRYSGN  
 MEYVISRISPVPPGAWQEGYPPPLNTSPMNPQQRGISSVPVGRQPIIMQSTSKFNFTPGRPGVQNG  
 GGQTDIFIMHQNVPVPTGAVNRQPPPPYPLTPANGQSPSALQAGGPAAPPFSNGNVPPMMPNRSNHSNME  
 LYNINVPGLQTTWPQSSAPVQSSPSSGHEIPTWQPNIPVRSNSFNPLGSRASHSANSQPSATTVTAIT  
 PAPIQQPVKSMRVLKPELQALAPTHPSWMPQPVQTVQSPFSEGAASNVPVIPPVAEAPSYQGPPPPYP  
 KHLHLQTPSVPPYESASKPCKDDQPSAKEEDSEKSLDSVDSGDKEKKQITTSPI TVRKNKKDEERRESR  
 IQSYSPQAFKFFMEQHVENVLKSHQQLHRKKQLENEMMRVGLSQDAQDQMRKMLCQKESNYIRLKRKAM  
 DKSMFVKIKTLGIGAFGEVCLARKVDTKALYATKTLRKKDVLRLNQVAHVKAERDILAEADNEWVRLYY  
 SFQDKDNLVYFMDYIPGDMMSLLIRMGIFPENLARFYIAELTCAVESVHKMGFIHRDIKPDNILIDRDG  
 HIKLTDGFLCTGFRWTHDSKYYSQSGDHPQDSMDFSSSEWDPNSNCRGDRLLKPLERRAARQHRCCLAHSL  
 VGTPNYIAPEVLLRTGYTQLCDWWSVGVILFEMLVGQPPFLAQTPLETQMKVINWQTSLHIPPQAKLSPE  
 ASDLI IKLCRGPEDRLGKNGADEIKAHPFFKTIIDFSSDLRQQSASYIPKITHPTDTSNFDVDPDKLWSD  
 GNEEENINDTLNGWYKNGKHPHEAFYEFTRFRFFDDNGYPYNYPKPIEYEVSSQGSSEQSDEDDQHTGS  
 DVNNRDLVYV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

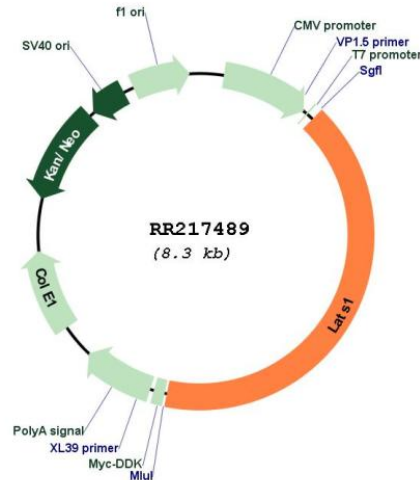
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001134543

ORF Size: 3390 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\\_001134543.2](#), [NP\\_001128015.2](#)

RefSeq Size: 7087 bp

RefSeq ORF: 3393 bp

Locus ID: 308265

Cytogenetics: 1p13

MW: 126.4 kDa