

Product datasheet for **MR215360**

Lrrc32 (NM_001113379) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc32 (NM_001113379) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrc32
Synonyms:	AI426318; D7H11S833E; D11S833Eh; EG434215; Garp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR215360 representing NM_001113379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCCACCAGATCCTGCTACTCTGGCCATGCTGACCCTGGCCTGGCTATCTCTCAGCGTCGAGAGC
 AAGTGCCCTGTAGGACGGTGAACAAGGAGGCCTTGTGCCACGGCCTTGGCCTGCTCCAGTCCCCTCGGT
 GCTCTCACTGGACATCCAAGCTCTCTACTTGTCCGGGAACCAACTGCAGAGCATCCTGGTCTCCCCACTG
 GGCTTCTATACAGCGCTTCGTCACCTGGATTTAAGTGACAACCAGATTAGCTTCTCCAGGCTGGGGTCT
 TCCAGGCCCTGCCCTACCTGGAGCACCTTAACCTGGCCACAATCGGCTTGCCACAGGCATGGCTCTCAA
 CAGTGGTGGTCTGGGCCCTGCCCTTTTGGTCTCCCTGGACCTGTCTGGGAACAGCCTGCATGGCAAT
 CTGGTGGAGCGACTGTTGGGTGAGACCCCGAGGCTGCGTACGCTCTCACTGGCGGAGAACAGCCTCACTC
 GCCTGGCAGCCACACCTTCTGGGGTATGCCAGCGGTGGAGCAATTAGACCTCCACAGCAATGTCCTCAT
 GGATATCGAGGACGGTGCCTTTGAGGCCCTGCCACCTGACTCACCTCAATCTCTCCAGAACTCCCTC
 ACCTGCATCTCAGACTTACGCTCCAGCAGCTGCAGGTAAGTACTAGACTTGAGCTGCAACAGCATTGAGGCC
 TCCAGACGGCCCCGGAACCACAGGCCAGTTCCAGTTGGCCTGGCTCGACCTCCGGGAGAACAAGTGTCT
 CCCTTCCCTGACCTGGCCGTGTTCCCGAGACTCATCTACCTGAATGTGTCTAACAACTCATCCAGCTC
 CCTGCGGGGCTGCCCGGGGCGAGTGGAGACCTCCACGCACCTCTGAAGGCTGGTCCAGCCTCTCCACTGT
 CCAACCCAGCCGGAATGCCAGCACCCACCCTCTCTCCAGCTCCTGAACCTGGATCTGAGTTACAATGA
 GATCGAACTGGTCCCTGCTAGCTTTCTTGAACCTGACCTCCCTGCGCTTCTCAACCTCAGCAGAAAC
 TGCTGCGATCCTTTGAGGCTCGACAAGTGGACTCCCTGCCCTGCCTGGTGTCTTTGGACTTGAGCCACA
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 TGCTTGCAGAACTTCCACCCTATACCTTTGCCAGCCTGGCCAGCCTGCAGAGGCTAAACCTACAGGGG
 AACCGAGTCACTCCCTGTGGGGGCGCAGAGAACCAGGTCCTCCCGGGCTGTGTGGACTTCTCTGGGATCC
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 CCCACTTACAGAGCTGGACCTCTCCACCAATCCTGGTCTGGATGTGGCCACGGGAGCCCTGGTGGCCTG
 GAGGCATCCTTAGAGGTACTGGAGCTTCAAGGCAACGGGCTGACTGTCTTGAGAGTGGACTTGCCTGCT
 TTCTCCGTCTCAAGCGCTTAACTTGTGAGAACCAGTTAAGCCACTGCCCGCTTGGACGCGGGCTGT
 GTCCTGGAGGTCTAGATCTGCGGAACAACAGCTTCAGCCTCCTGCCAGGCAATGCCATGGGTGGCCTG
 GAGACCAGTCTCCGGCGGCTGTACTTGCAGGGAATCCACTCAGCTGCTGTGGCAATGGTGGCTGGCGG
 CCCAGCTGCACCAGGGCAGAGTGGATGTGGATGCTACTCAGGACCTAATCTGCCGCTTTGGCTCCCAGGA
 GGAGTTGTCCCTGAGCCTAGTGGTCCAGAGGATTGCGAGAAGGGAGGGCTGAAGAATGTCAACCTCATC
 CTCTCTCAGCTTCACTGGTCTCTGCCATGCTCTACCACGCTGGCCACCATCTGTTCTCTCCGCC
 GGCAGAAGCTCAGCCAACAATACAAAGCC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215360 representing NM_001113379
 Red=Cloning site Green=Tags(s)

MSHQILLLLAMLTLGLAISQRREQVPCRTVNKEALCHGLGLLQVPSVLSLDIQALYLSGNLQSIILVSP
 GFYALRHLSDLSDNQISFLQAGVFQALPYLEHLNLAHNRLATGMALNSGGLGRLPLLVSLLDLSGNSLHGN
 LVERLLGETPRLRTLSLAENSLTRLARHTFWGMPAVEQLDLHSNVLMDIEDGAFEALPHLTHLNLNRSL
 TCISDFSLQQQLVLDLSCNSIEAFQTAPEPQAQFQLAWLDLRENKLLHFPDLAVFPRLIYLNVSNNLIQL
 PAGLPRGSEDLHAPSEGWSASPLSNPSRNASTHPLSQLLNLDSLNEIELVPASFLEHLTSLRFLNLSRN
 CLRSEARQVDSLPLVLLDLSHNVLEALELGTKVLGSLQTLQLLQDNALQELPPYTFASLASLQRLNLQG
 NQVSPCGGPAEPGPPGCVDFSGIPTLHVLNMGNSMGLRAGSFLHTPLTELDLSTNPGLDVATGALVGL
 EASLEVLELQGNLTVLRVDLPCFLRLKRLNLAENQLSHLPAWTRAVSLEVLDLRNNSFLLPGNAMGGL
 ETSRLRYLQGNPLSCCGNGWLAQLHQGRVDVATQDLICRFGSQEELSLSLVRPEDCEKGLKNVNI
 LLLSFTLVSAIVLTTLATICFLRRQKLSQQYKA

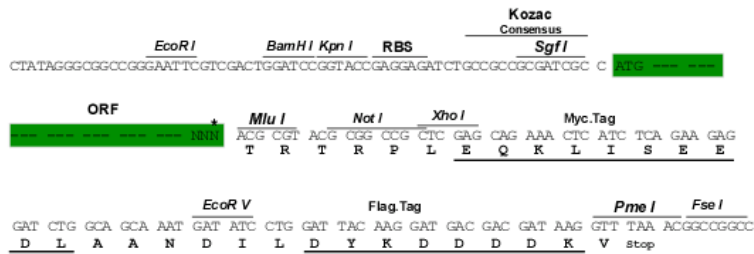
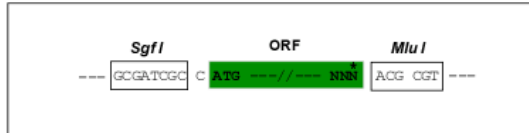
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1336_b02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



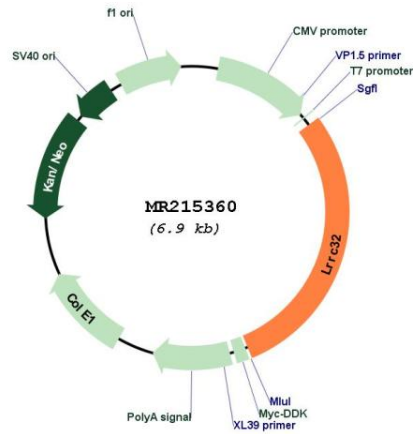
* The last codon before the Stop codon of the ORF

ACCN: NM_001113379

ORF Size: 1989 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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:	<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_001113379.2
RefSeq Size:	3817 bp
RefSeq ORF:	1992 bp
Locus ID:	434215
UniProt ID:	G3XA59
Cytogenetics:	7 53.86 cM
MW:	72.9 kDa
Gene Summary:	Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular space (PubMed:25127859). Associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta (PubMed:25127859, PubMed:28912269). Able to outcompete LTBP1 for binding to LAP regulatory chain of TGF-beta (By similarity). Controls activation of TGF-beta-1 (TGFB1) on the surface of activated regulatory T-cells (Tregs) (PubMed:25127859). Required for epithelial fusion during palate development by regulating activation of TGF-beta-3 (TGFB3) (PubMed:28912269).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215360