

## Product datasheet for **MR224646**

### Lgr6 (NM\_001033409) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lgr6 (NM_001033409) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lgr6
Synonyms:	A530037C04Rik; D830026M09
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224646 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACAGCCCGCTGGGCTCCTGGCGTGTGGCTTTGCGCTGTGCTGTGCGCATCGGCGCGGGGGCA  
 GCGACCCCGAGCCTGGCCGGGGCGTCCCCTGCGCCGCTCCCTGCCACTGCCAGGAGGACGGCATCAT  
 GCTGTCCGCTGACTGCTCCGAGCTCGGGCTCTCAGTGGTGCCTGCGGACCTGGACCCCTGACGGCTTAC  
 CTAGACCTCAGTATGAACAACCTCACGGAGCTTACGCCGGTCTCTTCCACCACCTGCGCTTCTGGAGG  
 AGCTGCGGCTCTCAGGGAACACCTCTCACACATCCCGGACAGGCATTCTCCGGCTCCACAGCCTCAA  
 AATTCTAATGCTGCAGAGCAACCAGTCCGTGGGATCCCAGCAGAGGCACTATGGGAGCTGCCAGCCTG  
 CAGTCGCTGCGCTAGATGCTAATCTCATCTCCCTGGTCCCTGAGAGAAGCTTTGAGGGCTCTCTCCC  
 TCCGCCACCTCTGGCTGGATGACAATGCACTCACTGAGATCCCCGTGAGACTCTCAACAACCTTCTGC  
 CCTACAGGCCATGACCTTGGCTCTCAACCATATCCGCCACATCCCTGACTATGCCTTCCAGAACCTCACC  
 AGTCTTGTGGTGCATCTACATAACAACCGCATCCAGCATGTGGGGACCCACAGCTTCGAGGGGCTGC  
 ACAATCTGGAGACACTAGACCTGAACTATAATGAGCTGCAGGAGTTCCCTTGGCTATCCGGACCTGGG  
 CAGGCTGCAGGAATTGGTTTCCATAACAACAACATCAAGGCTATCCCAGAGAAAGCCTTCATGGCAAC  
 CCTCTCTGCAGACAATACATTTTATGACAACCAATCCAGTTTGTGGGAAGGTGAGCATTCCAGTACC  
 TGTCTAAACTGCATACGCTATCTTTGAATGGTGCCTGATATCCAAGAGTTCCAGACCTCAAAGGCAC  
 CACTAGCCTGGAGATCCTGACCTGACCCGTGCGGGCATCAGACTGCTCCACCGGGAGTGTGCCAACAG  
 CTGCCTAGGCTCCGAATCCTGGAGCTGTCTATAATCAGATCGAGGAGTTACCCAGCCTGCACAGATGTC  
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 GGGCTCCTTGCAAGCTTTAGACCTGAGTTGGAATGCCATCCGTGCCATCCACCCTGAGGCTTTCTCAACC  
 CTTGATCCTTGGTTAAGCTGGACCTGACTGACAACAGCTGACCACACTGCCCTGGCTGGGCTGGGAG  
 GCCTGATGCACCTGAAGCTCAAAGGGAACCTGGCCCTGTCTCAGGCCTTCTCCAAGGACAGTTTCCAAA  
 ACTGAGGATCCTGGAGGTGCCCTACGCCTACCAGTGTGTGCCTACGGCATCTGTGCCAGCTTCTCAAG  
 ACCTCTGGGCAGTGGCAGGCCGAGGACTTTCATCCAGAAGAAGAGGAGGCACCAAGAGGCCCTGGGTC  
 TCCTTGTGGACAAGCTGAGAACCCTATGACCTAGACCTGGATGAGCTCCAGATGGGGACAGAGGACTC  
 AAAGCAAACCCAGTGTCCAGTGCAGCCCTGTTCCAGGCCCTTCAAGCCCTGCGAGCACCTCTTTGAG  
 AGCTGGGGCATCCGCCTTGTGTGTGGCCATCGTGTACTCTCCGTACTCTGTAACGGGCTGGTGTGC  
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 CAACGCCCTGACGGGCATTTCTGTGGTCTCTGGCCTCGGTGGACGCCTTGACCTATGGTCAGTTCGCT  
 GAGTATGGAGCCCGCTGGGAGAGCGGTCTGGGCTGCCAGGCTACGGGCTTCTGGCTGTCTGGGTTGAG  
 AGGCGTCGGTGTCTGCTCACACTGGCGGCGGTGCACTGCAGCATCTCTGTGACCTGCGTCCGAGCCTA  
 CGGGAAGGCGCGTGCCTGGCAGCGTCCGCGCAGGCGCACTGGGATGCCTGGCGCTGGCCGGGCTGGCC  
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 CTCTGGCCAAGCCCTCGGTCCCCAGGGCCCTAGCCTACGCTGCAGCCGGTGGAGTGGAGAAGAGCTCCT  
 GCGACTCCACCAAGCGCTGGTGGCTTTCTCAGATGTGGATCTTATTCTGGAAGCTTCTGAGGCTGGCA  
 GCCTCCTGGGCTAGAGACCTATGGCTTCCCTTCACTGACCCTCATCTCCCGACATCAGCCGGGGCCACC  
 AGGCTGGAGGAAACATTTTATAGAGTCTGATGGAACCAAGTTTGGGAACCCACAACCTCCCATGAAGG  
 GAGAAGTCTGCTGAAGGAGAGGGAGCCACTTTGGCAGGCTGTGGCTTTCGTGGGTGGAGCCCTCTG  
 GCCCTCTGGCTCTCTTTGCCCTCACTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224646 protein sequence  
 Red=Cloning site Green=Tags(s)

MHSPPLLALWLCVLCASARGGSDPQPGRPACAPAPCHCQEDGIMLSADCELGLSVVPADLDPLTAY  
 LDLSMNNLTELQPLFHHLRFLEELRLSGNHLSHIPGQAFSGLHSLKILMLQSNQLRGIPAEALWELPSL  
 QSLRLDANLISLVPERSFEGLSSLRHLWLDNLTTEIPVRALNNLPAQAMTLALNHIRHIPDYAFQNL  
 SLVVLHLHNNRIQHVGHHSFEGLNHLETLDLNYNELQEFPLAIRTLGRLQELGFHNNNIKAIPKAFMGN  
 PLLQTIHFYDNPIQFVGRSAFQYLSKLHTLSLNGATDIQFDPDLKGTTSLEILTLTRAGIRLLPPGVCQQ  
 LPRLRILELSHNQIEELPSLHRCQKLEEIQLRHNRIKEIGADTFSQLGSLQALDLSWNAIRAIHPEAFST  
 LRSLVKLDLTDNQLTTLPLAGLGGMLHLKLGNLALSQAFSKDSFPKLRILEVPYAYQCCAYGICASF  
 TSGQWQAEDFHPEEEEEAPKRPLGLLAGQAENHYDLDELQMGTEDESKPNPSVQCSVPVPGPFKPEHLFE  
 SWGIRLAVWAIVLLSVLCNGLVLLTVFASGPSPLSPVKLVVGAMAGANALTGISCGLLASVDALTYGQFA  
 EYGARWESGLGCQATGFLAVLGSEASVLLTLAAVQCSISVTCVRAYGKAPSPGVRAGALGCLALAGLA  
 AALPLASVGEYGASPLCLPYAPPEGRPAALGFAVALVMMNSLCFLVVAGAYIKLYCDLPRGDFEAVWDC  
 MVRHVAVLIFADGLLYCPVAFLSFASMLGLFPVTPEAVKSVLLVVLPLACLNPLLYLLFNPHFRDDLRR  
 LWSPRSPGPLAYAAAGELEKSSCDSTQALVAFSDVDLILEASEAGQPPLETYGFPSVTLSRHPQPGAT  
 RLEGNHFIESDGTGKGNPQPPMKGELLKKAEGATLAGCGSSVGGALWPSGSLFASHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

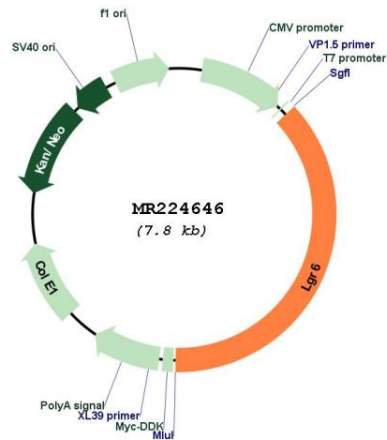


ACCN: NM\_001033409

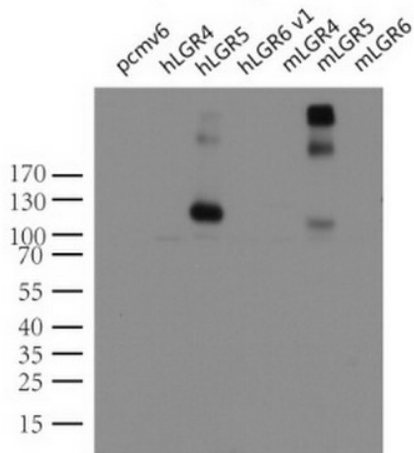
ORF Size: 2904 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001033409.1</a> , <a href="#">NM_001033409.2</a> , <a href="#">NM_001033409.3</a> , <a href="#">NP_001028581.1</a>
<b>RefSeq Size:</b>	3623 bp
<b>RefSeq ORF:</b>	2904 bp
<b>Locus ID:</b>	329252
<b>UniProt ID:</b>	<a href="#">Q3UVD5</a>
<b>Cytogenetics:</b>	1 E4
<b>MW:</b>	104.3 kDa
<b>Gene Summary:</b>	Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a marker of multipotent stem cells in the epidermis. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224646



Western blot analysis of extracts (10ug) from 7 different transiently transfected HEK293T cell lysates by using anti-LGR5 monoclonal antibody (Cat# [UM800104]). Lanes: control vector pCMV6-Entry (Cat# [PS100001]); human LGR4 (Cat# [RC221345]), LGR5 (Cat# [RC212825]) and LGR6 (Cat# [RC219284]), and mouse LGR4 (Cat# [MR219497]), LGR5 (Cat#[MR219702]) and LGR6 (Cat# MR224646).