

Product datasheet for **RR205350**

Lgr4 (NM_173328) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lgr4 (NM_173328) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lgr4
Synonyms:	Gpr48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205350 representing NM_173328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGGCCGCTAGGGCTGCTCTGCTTCTCGCCCTGGGGCTGCTCGGCTCGGCCGGGCCAGCGGCC
 CGGCGCCGCTCTCTGCGCGGCCCTGCAGCTGCGACGGCGACCGTCCGGTGGACTGCTCCGAAAGGG
 GTTGACGGCCGTACCGGAGGGTCTCAGCGCCTTACCCAAGCACTGGATATCAGTATGAACAATATCACC
 CAGTTACCAGAAGATGCATTTAAGAGTTTCCCATTCTAGAGGAGCTACAACCTGGCTGGTAAACGACCTTT
 CTCTTATCCATCCAAAAGCCTTGTCTGGGCTGAAAGAAGCTCAAAGTCTAACACTCCAGAATAATCAGTT
 GAGAACAGTGCCAGTGAAGCCATTACGGACTGAGTGTTCAGTCTTACGCTTAGATGCCAACCAT
 ATTACCTCAGTCCCGGAGGACAGTTTTGAAGGGCTTGTCCAGTTACGCCATCTGTGGCTGGATGACAACA
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 CAACATCTCAAGCATCCCTGACTTCGCTTTCACCAACCTTCAAGCTTGGTGGTTCTGCATCTGCATAAC
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 ACAATTACTTGGATGAGTTTCTCAGGCTATTAAGCCCTTCCCAGCCTTAAAGAGCTGGGATTTACAG
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 GGAAGAGCAGTCACTCAGACAGTTCAGGTGGCCGCCCTTAGCTTTGCTGGGTGCCGAGTGGCAGG
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 GTCGTGGATTCCTCTGGTGCCTATGCTTACAATCTACAGAGAGTCAGAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205350 representing NM_173328
Red=Cloning site Green=Tags(s)

MPGPLGLLCFLALGLLGSAGPSGAAPPLCAAPCSCDGRRVDCSGKGLTAVPEGLSAFTQALDISMNNIT
 QLPEDAFKSFPFLEELQLAGNDLSLIHPKALSGLKELKVLTLQNNQLRTPVSEAIHGLSALQSLRLDANH
 ITSVPEDSFEGLVQLRHLWLDNSL TEVPVRPLSNLPTLQALTLALNNISSIPDFAFTNLSSLVVLHLHN
 NKIKLSQHCDFGLDNLETLDLNLYNLEDEFPQAIAKALPSLKELGFHSNSISVIPDGAFGGNPLLRITHL
 DNPLSFVGNFAFHNLSDLHCLVIRGASLVQWFPNLTGTVHLESLLTGTGKISSIPDDLQCNQKMLRDL
 SYNINRDLPSFNGCRAL E E I S L Q R N Q I S L I K E N T F Q G L T S L R I L D L S R N L I R E I H S G A F A K L G T I T N L D V
 SFNELTSFPTEGLNGLNQLKLVGNFKLDALAARDFANLRSLSPYAYQCCAFWGCDSYANLNTEDNSPQ
 EHSVTKEKGATDAANVTSTAENEHSQIIHCTPSTGAFKPEYLLGSMIRLTVWFIFLVALLFNLLVI
 LTVFASCSLPAKLFIGLISVSNLLMGIYTGILTFLDVSWGRFAEFGIWWETGSGCKVAGSLAVFSSE
 SAVFLLTLAAVERSVFAKDLMKHGKSSHLRQFQVAALLALLGAAVAGCFPLFHGGQYSASPLCLPFTGE
 TPSLGFVTVLVLLNSLAFLLMAIIYTKLYCNLEKEDLSENSQSSVIKHVAWLIFTNCIFFCPVAFFSFAP
 LITAISSPEIMKSVTLIFFPLPACLNPVLYVFFNPKFKEDWKLKRRVTRKHGSVSVSISQGGCGEQD
 FYYDCGMYSHLQGNLTVCCESFLLTKPVSKHLIKSHSCPVLTAASCQRPEAYWSDCGTQSAHSDYAD
 EEDSFVSDSSDQVQACGRACFYQSRGFPLVRYAYNLQRVRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

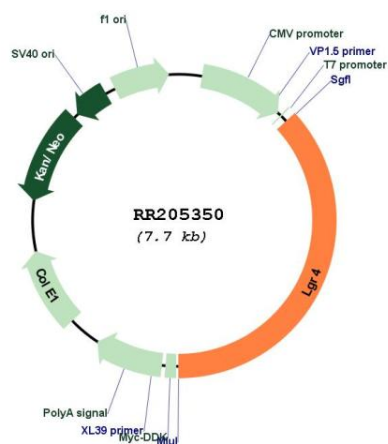


ACCN: NM_173328

ORF Size: 2853 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:	<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_173328.1 , NP_775450.1
RefSeq Size:	3535 bp
RefSeq ORF:	2856 bp
Locus ID:	286994
UniProt ID:	Q9Z2H4
Cytogenetics:	3q34
MW:	104.1 kDa
Gene Summary:	member of a family of G-protein coupled receptors that contain leucine rich repeats [RGD, Feb 2006]

Product images:



Circular map for RR205350