

Product datasheet for **RG211015**

LG12 (NM_018176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LG12 (NM_018176) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LG12
Synonyms:	LGIL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211015 representing NM_018176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCTGCGGAGAGGCGGCTGCGGAGCGCTCGGGCTGCTGCTGCTGCTGCTGGCGCCGCGTGCCTGA
 TACCGCGAGCGCGCAGGTGAGGCGGCTGGCGCGCTGCCCGCCACTTGCAGCTGTACCAAGGAGTCTAT
 CATCTGCGTGGGCTCTTCTGGGTGCCAGGATCGTGCCGGGCGACATCAGCTCCCTGAGCCTGGTAAAT
 GGGACGTTTTTCAGAAATCAAGGACCGAATGTTTTCCCATCTGCCTTCTCTGCAGCTGCTATTGCTGAATT
 CTAACTCATTACGATCATCCGGGATGATGCTTTTCTGGACTTTTTTCATCTTGAATACCTGTTCAATTGA
 AGGGAACAAAATAGAAACATTTCAAGAAATGCCTTTCTGGCCCTCCGTGACCTGACTCACCTTTCTTTG
 GCCAATAACCACATAAAAGCACTACCAAGGGATGTCTTCAGTGATTTAGACTCTCTGATTGAACTAGATT
 TGAGGGGTAATAAATTTGAATGTGACTGCAAAGCCAAGTGCTATACCTGTGGTTGAAGATGACAAATTC
 CACCGTTTCTGATGTGCTGTGATTGGTCCACCAGAGTATCAGGAAAAGAAGCTAAATGACGTGACCAGC
 TTTGACTATGAATGCACAACACAGATTTTGTGTTTCATCAGACTTTACCTACCAGTCCGTTTCAGTGG
 ATACGTTCAACTCCAAGAACGATGTGTACGTGGCCATCGCGCAGCCCAGCATGGAGAAGTGCATGGTGTCT
 GGAGTGGGACCACATTGAAATGAATTTCCGGAGCTATGACAACATTACAGGTGAGTCCATCGTGGGCTGT
 AAGGCCATTCTCATCGATGATCAGGTCTTTGTGGTGGTAGCCAGCTCTTCGGTGGCTCTCACATTTACA
 AATACGACGAGAGTTGGACCAAAATTTGTCAAATCCAAGACATAGAGGTCTCTCGCATTTCCAAGCCAA
 TGACATCGAGCTTTTTCAGATCGACGACGAGACGTTCTTTGTTCATCGCAGACAGCTCAAAGGCTGGTCTG
 TCCACAGTTTATAATGGAACAGCAAAGGATTCTATTCTACCAGTCACTGCACGAGTGGTTCAGGGACA
 CGGATGCGGAGTTTGTGATATCGATGGAATAATCGCATCTCATCTGTCAGCCGCTCCCAGTCCCCCAT
 CATCTCCAGTGAATAAAAGCTCTAAGAAGTTTGTCCCCATGGTGACATCCCCAACATGGAGGACGTA
 CTGGCTGTGAAGAGCTTCCGAATGCAAAATACCCTCTACCTTTCCCTTACCCGCTTCATCGGGGACTCCC
 GGGTCATGAGGTGGAACAGTAAGCAGTTTGTGGAGATCCAAGCTCTTCCATCCCAGGGGGCCATGACCCCT
 GCAGCCCTTTTCTTTAAAGATAATCACTACCTGGCCCTGGGAGTGACTATACATTCTCTCAGATATAC
 CAGTGGGATAAAGAGAAGCAGCTATTCAAAAAGTTTAAGGAGATTTATGTGCAGGCGCCTCGTTCATTCA
 CAGCTGTCTCCACCGACAGGAGAGATTTCTTTTTTGCATCCAGTTTCAAAGGGAAAACAAAGATTTTGA
 ACATATAATTGTTGACTTAAGTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211015 representing NM_018176
 Red=Cloning site Green=Tags(s)

MALRRGGCGALGLLLLLLGAACLIPRSAQVRRRLARCPATCSCTKESIICVGSWVPRIVPGDISSLVNLVN
 GTFSEIKDRMFSHLPSLQLLLLNSNSFTIIRDDAFAGLFHLEYLFIENKIETISRNAFRGLRDLTHLSL
 ANNHKALPRDVFSDLSLIELDLRGNKFECDCKAKWLYLWLMNTSTVSDVLCIGPPEYQEKLNVDVTS
 FDYECTTTDFVQHQLPYQSVSVDTFNSKNDVYVAIAQPSMENCMLVLEWDHIEMNFRSYDNITGQSIKGL
 KAILIDDQVVFVVAQLFGGSHIYKYDESWKFKVQDIEVSRISKPNDELFIQIDDETFVIADSSKAGL
 STVYKWNKGFYSYQSLHEWFRDTEAFVDIDGKSHLILSSRSQVPIILQWNKSSKFFVPHGDIPNMDV
 LAVKSRMQNTLYLSLTRFIGDSRVMRWNSKQFVEIQALPSRGAMTLQPFQKDNHYLALGSDYTFQIY
 QWDKEKQLFKKFKIYVQAPRSFTAVSTDRRDFFFASSFKGKTKIFEHIIVDLSL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018176

ORF Size: 1635 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_018176.2](#), [NP_060646.2](#)

RefSeq Size: 3323 bp

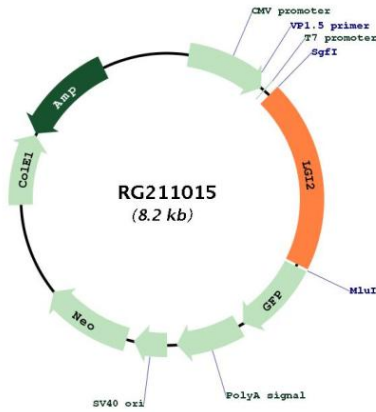
RefSeq ORF: 1638 bp

Locus ID: 55203

UniProt ID: [Q8N0V4](#)

Cytogenetics: 4p15.2
Domains: LRRCT, LRR, EPTP
Protein Families: Secreted Protein, Transmembrane
Gene Summary: Required for the development of soma-targeting inhibitory GABAergic synapses made by parvalbumin-positive basket cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211015