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Product datasheet for RC220874

GABRQ (NM_018558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GABRQ (NM_018558) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GABRQ
Synonyms:	THETA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC220874 representing NM_018558
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCATCCGAGGCATGCTGCGAGCCGCAGTGATCCTGCTGCTCATCAGGACCTGGCTCGCGGAGGGCA
ACTACCCCAGTCCCATCCCGAAATTCCACTTCGAGTTCTCCTCTGCTGTGCCCGAAGTCGTCCTGAACCT
CTTCAACTGCAAAAATTGTGCAAATGAAGCTGTGGTTCAAAAGATTTTGGACAGGGTGCTGTCAAGATAC
GATGTCCGCCTGAGACCGAATTTTGGAGGTGCCCCTGTGCCTGTGAGAATATCTATTTATGTCACGAGCA
TTGAACAGATCTCAGAAATGAATATGGACTACACGATCACGATGTTTTTTCATCAGACTTGGAAAGATTC
ACGCTTAGCATACTATGAGACCACCCTGAACTTGACCCTGGACTATCGGATGCATGAGAAGTTGTGGGTC
CCTGACTGCTACTTTCTGAACAGCAAGGATGCTTTCGTGCATGATGTGACTGTGGAGAATCGCGTGTTTC
AGCTTCACCCAGATGGAACGGTGCGGTACGGCATCCGACTCACCACTACAGCAGCTTGTTCCCTGGATCT
GCATAAATTCCCTATGGACAAGCAGGCCTGCAACCTGGTGGTAGAGAGCTATGGTTACACGGTTGAAGAC
ATCATATTATTCTGGGATGACAATGGGAACGCCATCCACATGACTGAGGAGCTGCATATCCCTCAGTTCA
CTTTCCTGGGAAGGACGATTACTAGCAAGGAGGTGTATTTCTACACAGGTTCCTACATACGCCTGATACT
GAAGTTCCAGGTTCAGAGGGAAGTTAACAGCTACCTTGTGCAAGTCTACTGGCCTACTGTCCTCACCACT
ATTACCTCTTGGATATCGTTTTGGATGAACTATGATTCCTCTGCAGCCAGGGTGACAATTGGCTTAACTT
CAATGCTCATCCTGACCACCATCGACTCACATCTGCGGGATAAGCTCCCCAACATTTCCTGTATCAAGGC
CATTGATATCTATATCCTCGTGTGCTTGTTCTTTGTGTTCCTGTCCTTGCTGGAGTATGTCTACATCAAC
TATCTTTTCTACAGTCGAGGACCTCGGCGCCAGCCTAGGCGACACAGGAGACCCCGAAGAGTCATTGCCC
GCTACCGCTACCAGCAAGTGGTGGTAGGAAACGTGCAGGATGGCCTGATTAACGTGGAAGACGGAGTCAG
CTCTCTCCCCATCACCCCAGCGCAGGCCCCCCTGGCAAGCCCGGAAAGCCTCGGTTCTTTGACGTCCACC
TCCGAGCAGGCCCAGCTGGCCACCTCGGAAAGCCTCAGCCCACTCACTTCTCTCTCAGGCCAGGCCCCCC
TGGCCACTGGAGAAAGCCTGAGCGATCTCCCCTCCACCTCAGAGCAGGCCCGGCACAGCTATGGTGTTCG
CTTTAATGGTTTCCAGGCTGATGACAGTATTATTCCTACCGAAATCCGCAACCGTGTCGAAGCCCATGGC
CATGGTGTTACCCATGACCATGAAGATTCCAATGAGAGCTTGAGCTCGGATGAGCGCCATGGCCATGGCC
CCAGTGGGAAGCCCATGCTTCACCATGGCGAGAAGGGTGTGCAAGAAGCAGGCTGGGACCTTGATGACAA
CAATGACAAGAGCGACTGCCTTGCCATTAAGGAGCAATTCAAGTGTGATACTAACAGTACCTGGGGCCTT
AATGATGATGAGCTCATGGCCCATGGCCAAGAGAAGGACAGTAGCTCAGAGTCTGAGGATAGTTGCCCCC
CAAGCCCTGGGTGCTCCTTCACTGAAGGGTTCTCCTTCGATCTCTTTAATCCTGACTACGTCCCAAAGGT
CGACAAGTGGTCCCGGTTCCTCTTCCCTCTGGCCTTTGGGTTGTTCAACATTGTTTACTGGGTATACCAT
ATGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC220874 representing NM_018558
Red=Cloning site Green=Tags(s)

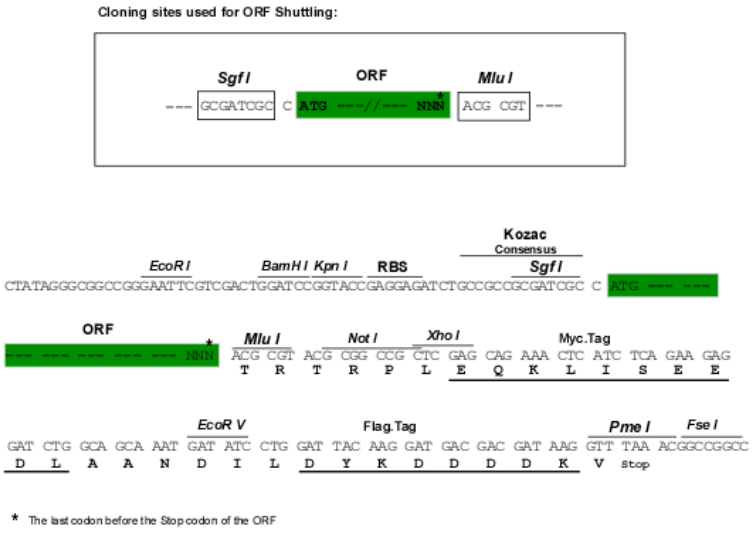
MGIRGMLRAAVILLLIRTWLAEGNYPSPIPKFHFEFSSAVPEVVLNLFNCKNCANEAVVQKILDRVLSRY
DVRLRPNFGGAPVPVRISIYVTSIEQISEMNMDYTITMFFHQTWKDSRLAYYETTLNLTLDYRMHEKLWV
PDCYFLNSKDAFVHDVTVENRVFQLHPDGTVRYGIRLTTTAACSLDLHKFPMDKQACNLVVESYGYTVED
IILFWDDNGNAIHMTEELHIPQFTFLGRTITSKEVYFYTGSYIRLILKFQVQREVNSYLVQVYWPTVLTT
ITSWISFWMNYDSSAARVTIGLTSMLILTTIDSHLRDKLPNISCIKAIDIYILVCLFFVFLSLLEYVYIN
YLFYSRGPRRQPRRHRRPRRVIARYRYQQVVVGNVQDGLINVEDGVSSLPITPAQAPLASPESLGSLTST
SEQAQLATSESLSPLTSLSGQAPLATGESLSDLPSTSEQARHSYGVRFNGFQADDSIIPTEIRNRVEAHG
HGVTHDHEDSNESLSSDERHGHGPSGKPMLHHGEKGVQEAGWDLDDNNDKSDCLAIKEQFKCDTNSTWGL
NDDELMAHGQEKDSSSESEDSCPPSPGCSFTEGFSFDLFNPDYVPKVDKWSRFLFPLAFGLFNIVYWVYH
MY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2462_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018558

ORF Size: 1896 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).

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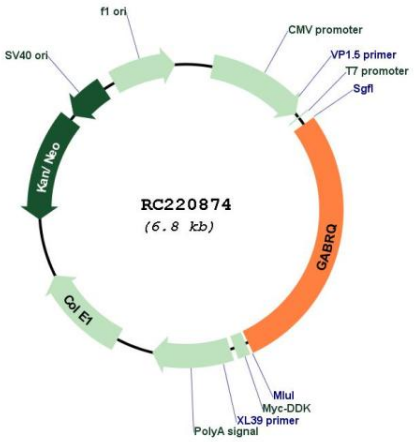
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_018558.4
RefSeq Size:	2000 bp
RefSeq ORF:	1899 bp
Locus ID:	55879
UniProt ID:	Q9UN88
Cytogenetics:	Xq28
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	69.6 kDa
Gene Summary:	The gamma-aminobutyric acid (GABA) A receptor is a multisubunit chloride channel that mediates the fastest inhibitory synaptic transmission in the central nervous system. This gene encodes the theta subunit of the GABA A receptor. The gene is mapped to chromosome Xq28 in a cluster of genes including those that encode the alpha 3 and epsilon subunits of the GABA A receptor. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC220874

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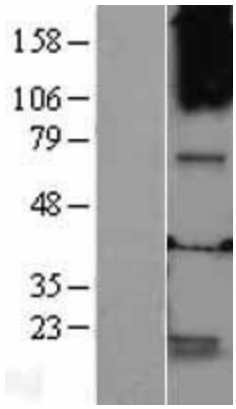

Western blot validation of overexpression lysate (Cat# [LY402695]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220874 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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