

Product datasheet for RC210428

beta 3 Adrenergic Receptor (ADRB3) (NM_000025) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta 3 Adrenergic Receptor (ADRB3) (NM_000025) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	beta 3 Adrenergic Receptor
Synonyms:	BETA3AR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210428 representing NM_000025 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCGTGGCCTCACGAGAACAGCTCTCTTGCCCCATGGCCGGACCTCCCCACCCTGGCGCCAATA
CCGCCAACACCAGTGGGCTGCCAGGGTTCCGTGGGAGGCGGCCCTAGCCGGGGCCCTGCTGGCGTGGC
GGTGTGGCCACCGTGGGAGGCGACCTGCTGGTCATCGTGGCCATCGCCTGGACTCCGAGACTCCAGACC
ATGACCAACGTGTTCTGACTTCGCTGGCCGACCGACCTGGTATGGGACTCCTGGTGGTGGCCCGG
CGCCACCTTGGCGTACTGGCCACTGGCCGTTGGGCGCCACTGGCTGCGAGCTGTGGACTCGGTGGA
CGTGTGTGTGACCGCAGCATCGAAACCCTGTGCGCCCTGGCCGTGGACCGCTACCTGGCTGTGACC
AACCCCGTGCCTACGGCGCACTGGTACCAAGCGCTGCGCCCGACAGCTGTGGTCTGGTGTGGTGC
TGTCCGCCCGGTGTCGTTTGGCCCATCATGAGCCAGTGGTGGCGCGTAGGGGCCGACGCCGAGGCCA
GCGCTGCCACTCAACCCGCGTGTGTGCCTTCGCTCCAACATGCCCTACGTGCTACTGTCTCTCTCC
GTCTCTTCTACCTTCTCTCTCGTATGCTCTTCGTCTACGCGCGGGTTTTCTGGTGGTACGCGCC
AGCTGCGCTTGTGCGCGGGAGCTGGGCCGCTTCCGCCGAGGAGTCTCCGTCCGCGCCGTCCGCTC
TCTGGCCCCGGCCCGTGGGGACGTGCGCTCCGCCGAAGGGGTGCCCGCTGCCGCGCGGCCCGG
CGCCTCCTGCTCCTCGGAACACCGGGCCCTGTGCACCTTGGGTCTCATCATGGGACCTCACTCTCT
GCTGGTTGCCCTTTCTGGCCAACGTGCTGCGCGCCCTGGGGGCCCTCTCTAGTCCCGGGCCCGGC
TTCTCTTGCCTGAACCTAGGTTATGCCAATTCTGCCTTCAACCCGCTCATCTACTGCCGAGCCCG
GACTTTGCGAGCGCCTCCGCCGCTTCTGTGCCGCTGCGGCCGTGCGCTGCCTCCGAGCCCTGCGCCG
CCGCCCGCCCGCCCTTCCCTCGGGCGTCTGCGGCCCGGAGCAGCCAGCGCAGCCAGGCTTTG
CCAACGGCTCGACGGGCTTCTGGGGAGTTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC210428 protein sequence
 Red=Cloning site Green=Tags(s)

MAPWPHENSSLAPWPDLPNTANTSGLPWPWEAALAGALLALAVLATVGGNLLVIVIAIAWTPRLQT
 MTNVFVTSLAAADLMGLLVVPPAATLALTGHWPLGATGCELWTSVDVLCVTASIELCALAVDRYLAVT
 NPLRYGALVTKRCARTAVVLVWVYSAAVSFAPIMSQWWRVADAEQRCHSNPRCCAFASNMPYVLLSSS
 VSFYLPPLLVMFLVYARVFVATRQLRLLRGLGRFPPEESPPAPSRSLAPAPVGTAPPEGVPAACGRRPA
 RLLPLREHRALCTLGLIMGFTFLCWLPPFLANVLRALGGPSLVPGPAFLALNWLGYANSFNPLIYCRSP
 DFRSAFRLLCRCGRLLPPEPCAAARPALFPSGVPAAARSSPAQPRLCQRLDGASWGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6270_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000025

ORF Size: 1224 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_000025.3](#)

RefSeq Size: 2660 bp

RefSeq ORF: 1227 bp

Locus ID: 155

UniProt ID: [P13945](#)

Cytogenetics: 8p11.23

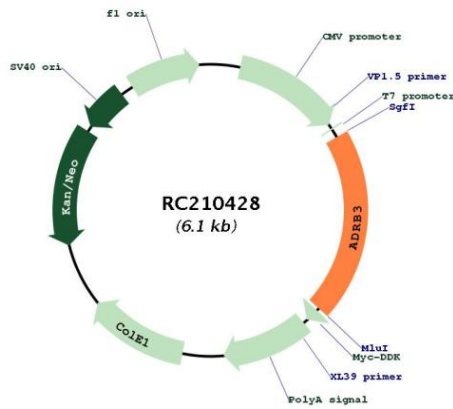
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Endocytosis, Neuroactive ligand-receptor interaction

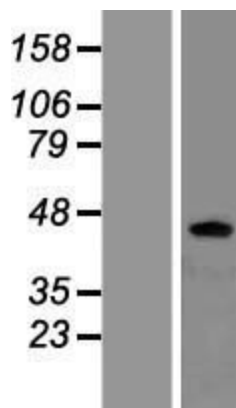
MW: 43.5 kDa

Gene Summary: The protein encoded by this gene belongs to the family of beta adrenergic receptors, which mediate catecholamine-induced activation of adenylate cyclase through the action of G proteins. This receptor is located mainly in the adipose tissue and is involved in the regulation of lipolysis and thermogenesis. Obesity and bodyweight-related disorders are correlated with certain polymorphisms in three subtypes of beta-adrenoceptor, among them, the ADRB3 gene.[provided by RefSeq, Oct 2019]

Product images:



Circular map for RC210428



Western blot validation of overexpression lysate (Cat# [LY424969]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210428 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).