

Product datasheet for **RC216997**

BTN2A1 (NM_007049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BTN2A1 (NM_007049) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BTN2A1
Synonyms:	BK14H9.1; BT2.1; BTF1; BTN2.1; DJ3E1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216997 representing NM_007049
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATCAGCTGCTGCCCTGCACTTCTCCCGCCAGCCTCCCTCCTCCTCCTCCTCAGCCTGTGTG
 CACTGGTCTCAGCCAGTTTATTGTCGTTGGGGCCCACTGATCCCATCTTGCCACGGTTGGAGAAAACAC
 TACGTTACGCTGCCATCTGTCACCCGAGAAAAATGCTGAGGACATGGAGGTGCGGTGTTCCGGTCTCAG
 TTCTCCCCCGCAGTGTGGTGTATAAAGGTGGCAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACCGAG
 GAAGAACCACCTTTGTGAGCAAAGACATCAGCAGGGGCAGCGTGGCCCTGGTCATACACAACATCACAGC
 CCAGGAAAACGGCACCTACCGCTGTTACTTCCAAGAAGGCAGGTCTACGATGAGGCCATCTGCACCTC
 GTAGTGGCAGGACTAGGCTCTAAGCCCCTATTTCAATGAGGGGCCATGAAGACGGGGGCATCCGGCTGG
 AGTGCATATCTAGAGGGTGGTACCCAAAGCCCCTCACAGTGTGGAGGGACCCCTACGGTGGGGTTGCGCC
 TGCCCTGAAAGAGGTCTCCATGCCTGATGCAGACGGCCTTTCATGGTCACCACGGCTGTGATCATCAGA
 GACAAGTCTGTGAGGAACATGTCCTGCTCTATCAACAACACCCTGCTCGGCCAGAAGAAAAGAGTGTCA
 TTTTTATTCCAGAATCCTTTATGCCAGTGTGTCTCCCTGTGCAGTGGCCCTGCCTATCATTGTGGTTAT
 TCTGATGATACCCATTGCCGTATGCATCTATTGGATCAACAAACTCCAAAAGGAAAAAAGATTCTGTCA
 GGGGAAAAGGAGTTTGAACGGGAAAACAAGAAAATTGCTCTAAAGGAACTGGAGAAAAGACGTGTGCAAA
 AAGAGGAAGAACTTCAAGTAAAAGAGAACTTCAAGAAGAATTGCGATGGAGAAGAACATTCTTACATGC
 TGTGATGTGGTCTGGATCCAGACACCCTCATCCCGATCTCTCCTGTGAGGACCGGAGAAGTGTG
 AGAAGGTGCCCTTCAGGCACCTAGGGGAGAGCGTGCCTGACAACCCAGAGAGATTCGACAGTCAGCCTT
 GTGTCCTAGGCCGGGAGAGCTTCGCTTCCAGGAAACATTACTGGGAGTGGAGGTGGAACAGTATTGA
 GTGGACTGTGGGGTCTGTAGAGACAGTGTGAGAGGAAAGGGGAGGTCTCTGATTCCCTCAGAATGGC
 TTCTGGACCTTGAGATGCATAAAGGGCAATACCGGGCCGTGTCCTCCCTGATAGGATTCTCCCTTTGA
 AGGAGTCCCTTTGCCGGTGGGCGTCTTCTGGACTATGAAGCTGGAGATGTCTCCTTCTACAACATGAG
 GGACAGATCGCACATCTACACATGTCCCGTTCAGCCTTTCCGTGCCTGTGAGGCCCTTCTCAGGTTG
 GGGTGTGAGGACAGCCCATCTTCATCTGCCCTGCACTCACAGGACCAATGGGGTACGGTGCCTGAAG
 AGGGCCTGACACTTCACAGAGTGGGACCCACCAGAGCCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216997 representing NM_007049
 Red=Cloning site Green=Tags(s)

MESAAALHFSRPASLLLLLLSLCALVSAQFIVVGPTDPILATVGENTTLRCHLSPEKNAEDMEVRFWSQ
 FSPA VFVYKGGREERTEEQMEEYRGRTTFVSKDISRGSVALVIHNI TAQENGTYRCYFQEGRSYDEAILHL
 VVAGLGSKPLISMRGHEDGGIRLECISRGWYPKPLTVWRDPYGGVAPALKEVSMPDADGLFMVTTAVIIR
 DKSVRNMSCSINNTLLGQKESVIFIPESFMPSPCAVALPIIIVVILMIPAVCIYWINKLQKEKKILS
 GEKEFERETREIALKELEKERVQKEELQVKEKLQEELRWRRTFLHAVDVVLDPDTAHPDLFLSEDRRSV
 RRCPPRHLGESVPDNPERFDSQPCVLGRESFASGKHYYEVENVIEWTVGVCRDVSVERKGEVLLIPQNG
 FWTLEMHKQYRAVSSPDRILPLKESLCRVGVFLDYEAGDVSYFNMRDRSHIYTCPRSAFSVPVPRPFRL
 GCEDSPIFICPALTGANGVTVPEEGLTLHRVGHQSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_007049

ORF Size: 1581 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_007049.5](#)

RefSeq Size: 2906 bp

RefSeq ORF: 1584 bp

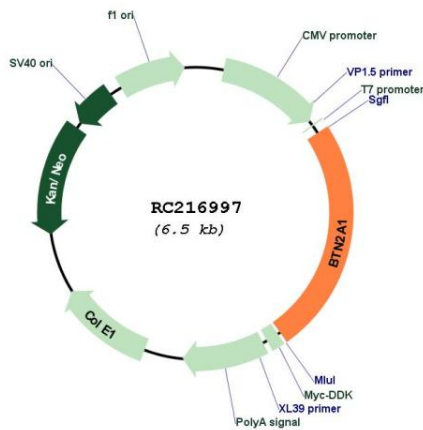
Locus ID: 11120

UniProt ID: [Q7KYR7](#)

Cytogenetics: 6p22.2
Domains: IGv, IG, SPRY, PRY
Protein Families: Druggable Genome, Transmembrane
MW: 59.63 kDa

Gene Summary: This gene encodes a member of the immunoglobulin superfamily. The gene is located in a cluster of butyrophilin-like genes in the juxta-telomeric region of the major histocompatibility complex on chromosome 6. A pseudogene of this gene has been identified in this cluster. The encoded protein is an integral plasma membrane protein involved in lipid, fatty-acid, and sterol metabolism. Alterations in this gene may be associated with several disease states including metabolic syndrome. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC216997