

## Product datasheet for **RG204804**

### **BAP31 (BCAP31) (NM\_005745) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BAP31 (BCAP31) (NM_005745) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAP31
Synonyms:	6C6-AG; BAP31; CDM; DDCH; DXS1357E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204804 representing NM_005745 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTCTGCAGTGGACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCA  
TTCCCTTCATTTCTCCTAAAAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGCCTA  
TGGCAACACCTTCTTTGTGGTTCTCATTGTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGGAAATT  
CGGGAGTATGATGATGTGACGGAAAAGGTGAACCTCCAGAACAATCCCGGGCCATGAGCACTTCCACA  
TGAAGCTTTTCCGTGCCAGAGGAATCTCTACATTGCTGGCTTTTCTTGCTGCTGCCTTCTGCTTAG  
ACGCCTGGTACTCTATTTTCGAGCAGGCCACGCTGCTGGCCTCCAATGAAGCCTTAAAAAGCAGGCG  
GAGAGTGTAGTGGCGGCAAGAAGTACATGGAGGAGAATGACCAGCTCAAGAAGGGAGCTGCTGTTG  
ACGGAGGCAAGTTGGATGTGGGAATGCTGAGGTGAAGTTGGAGGAAGAGAACAGGAGCCTGAAGGCTGA  
CCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAAGCTAGAGAAAGCTGAAAACAGGTTCTG  
GCCATGCGGAAGCAGTCTGAGGGCTCACCAAGGAGTACGACCGTTGCTGGAGGAGCACGCAAAGCTGC  
AGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204804 representing NM\_005745  
 Red=Cloning site Green=Tags(s)

MSLQWTAVATFLYAEV FV LLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILVLLVIDAVREI  
 REYDDVTEKVN LQNNPGAMEHFHMKLFRAQRNLYIAGF SLLL SFLLRRLVTLISQQATLLASNEAFKKQA  
 ESASEAAKKYMEENDQLKKGA AVDGGKLDVGN AEVKLEENRSLKADLQ LKDELASTKQKLEKAENQVL  
 AMRKQSEGLTKEYDRLL EEHAKLQAAVDGPMDKKEE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005745

**ORF Size:** 738 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\\_005745.6](#), [NP\\_005736.3](#)

**RefSeq Size:** 1324 bp

**RefSeq ORF:** 741 bp

**Locus ID:** 10134

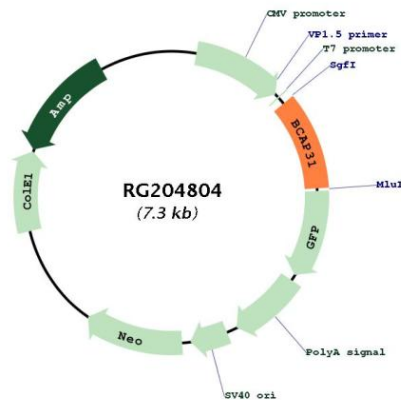
**UniProt ID:** [P51572](#)

**Cytogenetics:** Xq28

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a member of the B-cell receptor associated protein 31 superfamily. The encoded protein is a multi-pass transmembrane protein of the endoplasmic reticulum that is involved in the anterograde transport of membrane proteins from the endoplasmic reticulum to the Golgi and in caspase 8-mediated apoptosis. Microdeletions in this gene are associated with contiguous ABCD1/DXS1375E deletion syndrome (CADD5), a neonatal disorder. Alternative splicing of this gene results in multiple transcript variants. Two related pseudogenes have been identified on chromosome 16. [provided by RefSeq, Jan 2012]

### Product images:



Circular map for RG204804