

Product datasheet for **MG200154**

Snapap (BC006744) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Snapap (BC006744) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Snapap
Synonyms: 25kDa; AA407989; AV026596; Bloc1s7; Snap25bp; Snapap
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200154 representing BC006744
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGTTGCCCATTTCTCTCCAGAAGTGTGCCGGATCAATGAGGATCAGAAAGTGGCCCTGGATC
TGGACCCCTATGTTAAGAAGCTGCTTAATGCCAGGCGACGAGTTGTCTTGGTCAACAATATTTTACAGAA
TGCACAGGAACGACTAAGGCGTTAAACCACAGCGTGGCCAAGGAAACAGCTCGCAGGAGAGCTATGCTG
GATTCAGGAGTTACCCTCTGGTCTCCAAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200154 representing BC006744
Red=Cloning site Green=Tags(s)
MLVAHFLFPELCRINEDQKVALDLDPYVKLLNARRRVLVNINILQNAQERLRLNHSVAKETARRRAML
DSGVYPPGSPSK

TRTRPLE - GFP Tag - V

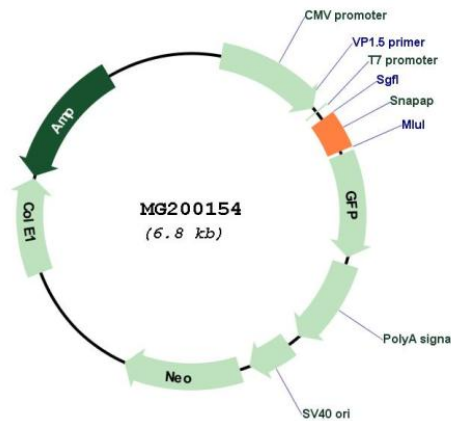
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: BC006744

ORF Size: 248 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:	<ol style="list-style-type: none">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:	BC006744 , AAH06744
RefSeq Size:	1858 bp
RefSeq ORF:	248 bp
Locus ID:	20615
Cytogenetics:	3 F1
Gene Summary:	<p>Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension. Plays a role in intracellular vesicle trafficking and synaptic vesicle recycling. May modulate a step between vesicle priming, fusion and calcium-dependent neurotransmitter release through its ability to potentiate the interaction of synaptotagmin with the SNAREs and the plasma-membrane-associated protein SNAP25. Its phosphorylation state influences exocytotic protein interactions and may regulate synaptic vesicle exocytosis. May also have a role in the mechanisms of SNARE-mediated membrane fusion in non-neuronal cells (PubMed:16760431, PubMed:19546860, PubMed:21998198). As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor (By similarity). [UniProtKB/Swiss-Prot Function]</p>