

Product datasheet for **RG201744**

Chromogranin B (CHGB) (NM_001819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chromogranin B (CHGB) (NM_001819) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chromogranin B
Synonyms:	SCG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201744 representing NM_001819
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGTGGGGCTGGCGGTGTCAATTCATGCCAGTGG
 ATAACAGGAACCAATGAAGGAATGGTACTCGCTGCATCATTGAGGTCTCTCAAATGCCTTGTGAA
 GTCCAGCGCTCCACCCATCACCCCTGAGTGCCGCAAGTCTGAAGACGAGTAGAAAAAGCGTCAAAGAC
 AAAGAGACAACCTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGACCCAGCTGATGCCTCGG
 AAGCCCACGAGTCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCAAGGCCAACAAA
 GGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCAGTGGAGC
 CTCTATCCCTCCGACAGCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGAGG
 ATGAGGAGGAGGAGGAGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACA
 CCTTGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAA
 GAGGAGTTAGTGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGA
 AGAGTAGCCAGGAGAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCAGGAGTCTAAAGGCCAACCC
 CCGAAGCCAGGAAGAATCTGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGG
 CCCAGACACCACCAGGGAGGAGCAGGCCCGACAGGTCCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAA
 AGGGACACCCCCAGGAGGAATCTGAGGAGTCAAACGTGAGCATGGCCAGTTTAGGGGAAAAGAGGGACCA
 CCATTAACCCACTACAGGGCTTCAAGGAAAGAACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGC
 GTCCAGGCCCTGAGGACCTGGAGTGGGAGCGCTATAGGGGCAGAGGAAGTGAAGAATACAGGGCTCCAA
 GACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAACTACCCAGCTTAGAGCTTGATAAGAT
 GGCACATGGATATGGTGAAGAAAGTGAAGAAAGAGAGGGGCTTGAGCCGGGAAAAGGGACGCCATCACAGA
 GGCAGGGGAGGGGAGCCACGTGCCTATTTTCATGTCTGACACCAGAGAAGAGAAAAGTTCTTGGGTGAAG
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 GGACAGAAATTATCTCAACTACGGTGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGACCTGCAG
 GACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGAAA
 AGAGGAAGAGATTAGGGGAAGTTCACCCATACTACGACCCTCTCCAGTGAAGAGCAGCCATTTTGA
 AAGAAGAGACAACATGAATGACAATTTTCTCGAGGGTGAAGGAGAAAATGAGCTGACCTTGAACGAGAAG
 AATTTCTTCCAGAATACTATGACTGGTGGGAGAAAAGCCCTTCTCTGAGGATGTGAAGTGGGGT
 ATGAGAAGAGAAAACCTCGCCAGGGTCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCACT
 GGACCAGCTCCTTCACTACAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTG
 AGCACCCACCAGGAGGCAGAAAAATGAAAAGGACAGGGCTGACCAGACAGTCTGACAGAGGACGAGAAAA
 AAGAACTCGAAAACCTGGCTGCAATGGATTTGAACTACAGAAGATAGCTGAGAAATTCAGCCAAAGGGG
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201744 representing NM_001819
 Red=Cloning site Green=Tags(s)

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNEGMVTRCIIIEVLSNALSKSSAPPITPECRQVLKTSRKDVKD
 KETTENENTKFEVRLLRDPADASEAHESSSRGEAGAPGEEDIQGPTKADTEKWAEAGGHSRERADEPQWS
 LYPDSQSQVSEEVKTRHSEKSQREDEEEEEENYQKGERGEDSSEKHLLEPGETQNAFLNERKQASAIKK
 EELVARSETHAAGHSQEKTHSREKSSQESGEEAGSQENHPQESKGGQPRSQEESEEGEEDATSEVDKRRTR
 PRHHHGRSRPDRSSQGGSLPSEEKGHPQEESEESNVSMASLGEKRDHSTHYRASEEEPEYGEIEIKGYPG
 VQAPEDLEWERYRGRGSEERYAPRPQSEESWDEEDKRNYPSELELDKMAHGYPGESEEEERGLEPGKGRHHR
 GRGGEPRAYFMSDTREEKRFLGEGHHRVQENQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWWQQGDLQ
 DTKENREEARFQDKQYSSHHTAEKRKRLGELFNPYYDPLQWSSHFERRDNMNDNLEGEENELTLNEK
 NFFPEYNDWWEKKPFSEVDNWGYEKRNLARVPKLDLKRQYDRVAQLDQLLHYRKKSAEFPDFYDSEEPV
 STHQEAENEKDRADQTVL TEDEKKELENLAAMDLELQKIAEKFSQRG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

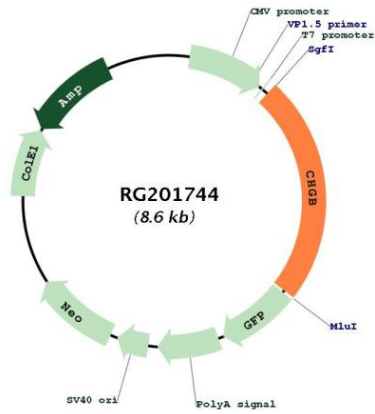


ACCN: NM_001819

ORF Size: 2031 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_001819.1 , NP_001810.1
RefSeq Size:	2454 bp
RefSeq ORF:	2034 bp
Locus ID:	1114
UniProt ID:	P05060
Cytogenetics:	20p12.3
Domains:	Granin
Protein Families:	Secreted Protein
Gene Summary:	This gene encodes a tyrosine-sulfated secretory protein abundant in peptidergic endocrine cells and neurons. This protein may serve as a precursor for regulatory peptides. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RG201744