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Product datasheet for RG203812

AMY2B (NM_020978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMY2B (NM_020978) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMY2B
Synonyms:	AMY2; AMY3; HXA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG203812 representing NM_020978
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTTCTTTCTGTTGCTTTTCACCATTGGGTTCTGCTGGGCTCAGTATTCCCCAAATACACAACAAG
GACGGACATCTATTGTTCATCTGTTTGAATGGCGATGGGTTGATATTGCTCTTGAATGTGAGCGATATTT
AGCTCCCAAGGGATTTGGAGGGGTTCAGGTCTCTCCACCAAATGAAAATGTTGCAATTCACAACCCTTTC
AGACCTTGGTGGGAAAGATACCAACCAGTTAGCTATAAATTATGCACAAGATCTGGAAATGAAGATGAAT
TTAGAAACATGGTGACTAGATGTAACAATGTTGGGGTTCGTATTTATGTGGATGCTGTAATTAATCATAT
GTCTGGTAATGCTGTGAGTGCAGGAACAAGCAGTACCTGTGGAAGTTACTTCAACCCTGGAAGTAGGGAC
TTTCCAGCAGTCCCATATTCTGGATGGGATTTTAATGATGGTAAATGTAAAACTGGAAGTGGAGATATCG
AGAACTACAATGATGCTACTCAGGTCAGAGATTGTCGTCTGGTTGGTCTTCTTGATCTTGCACTGGAGAA
AGATTATGTGCGTTCCAAGATTGCCGAATATATGAATCATCTCATTGACATTGGTGTTGCAGGGTTCAGA
CTTGATGCTTCCAAGCACATGTGGCCTGGAGACATAAAGGCAATTTTGGACAAACTGCATAATCTAAACA
GTAACTGGTTCCCTGCAGGAAGTAAACCTTTCATTTACCAGGAGGTAATTGATCTGGGTGGTGAGCCAAT
TAAAAGCAGTGACTACTTTGGAAATGGCCGGGTGACAGAATTCAAGTATGGTGCAAAACTCGGCACAGTT
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CTGACAGAGCACTTGTCTTTGTGGATAACCATGACAATCAACGAGGACATGGGGCTGGAGGAGCCTCTAT
TCTTACCTTCTGGGATGCTAGGCTGTATAAAATGGCAGTTGGATTTATGCTTGCTCATCCTTATGGTTTT
ACACGAGTAATGTCAAGCTACCGTTGGCCAAGACAGTTTCAAAATGGAAACGATGTTAATGATTGGGTTG
GGCCACCAAATAATAATGGAGTAATTAAAGAAGTTACTATTAATCCAGACACTACTTGTGGCAATGACTG
GGTCTGTGAACATCGATGGCGCCAAATAAGGAACATGGTTAATTTCCGCAATGTAGTGGATGGCCAGCCT
TTTACAAACTGGTATGATAATGGGAGCAACCAAGTGGCTTTTGGGAGAGGAAACAGAGGATTCATTGTTT
TCAACAATGATGACTGGACATTTTCTTTAACTTTGCAAACTGGTCTTCCTGCTGGCACATACTGTGATGT
CATTTCTGGAGATAAAATTAATGGCAATTGCACAGGCATTAAAATCTACGTTTCTGACGATGGCAAAGCT
CATTTTTCTATTAGTAACTCTGCTGAGGATCCATTTATTGCAATTCATGCTGAATCTAAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

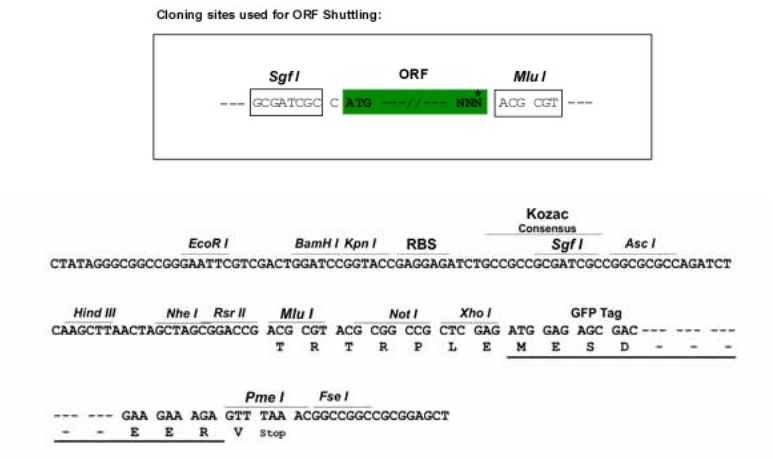
>RG203812 representing NM_020978
Red=Cloning site Green=Tags(s)

MKFFLLLFTIGFCWAQYSPNTQQGRTSIVHLFEWRWVDIALECERYLAPKGFGGVQVSPPNENVAIHNPF
RPWWERYQPVSYKLCTRSGNEDEFRNMVTRCNNVGVRIYVDAVINHMSGNAVSAGTSSTCGSYFNPGSRD
FPAVPYSGWDFNDGKCKTGSGDIENYNDATQVRDCRLVGLLDLALEKDYVRSKIAEYMNHLIDIGVAGFR
LDASKHMWPGDIKAILDKLHNLNSNWFPAGSKPFIYQEVIDLGGEPIKSSDYFGNGRVTEFKYGAKLGTV
IRKWNGEKMSYLKNWGEGWGFMPSDRALVFVDNHDNQRGHGAGGASILTFWDARLYKMAVGFMLAHPYGF
TRVMSSYRWPRQFQNGNDVNDWVGPPNNNGVIKEVTINPDTTCGNDWVCEHRWRQIRNMVNFRNVVDGQP
FTNWYDNGSNQVAFGRGNRGFIVFNNDDWTFSLTLQTGLPAGTYCDVISGDKINGNCTGIKIYVSDDGKA
HFSISNSAEDPFIAIHAESKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

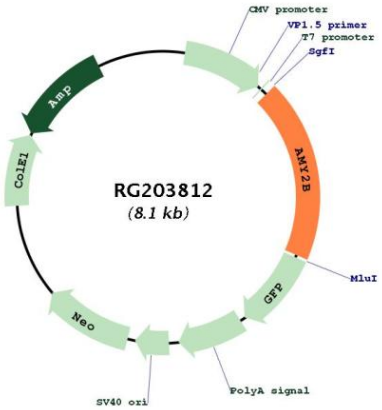
Cloning Scheme:



ACCN:	NM_020978
ORF Size:	1533 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_020978.4
RefSeq Size:	2215 bp
RefSeq ORF:	1536 bp
Locus ID:	280

UniProt ID:	P19961
Cytogenetics:	1p21.1
Domains:	alpha-amylase, Aamy_C, Aamy
Protein Families:	Secreted Protein
Protein Pathways:	Metabolic pathways, Starch and sucrose metabolism
Gene Summary:	Amylases are secreted proteins that hydrolyze 1,4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. The human genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the pancreas. [provided by RefSeq, Jun 2013]

Product images:



Circular map for RG203812