

Product datasheet for **RG214135**

CA6 (NM_001215) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CA6 (NM_001215) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CA6
Synonyms: CA-VI; GUSTIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214135 representing NM_001215
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGCCCTGGTGCTTCTGCTGTCCCTGTTCTGCTGGGTGGCCAGGCCAGCATGTGTCTGACTGGA
CCTACTCAGAAGGGGCACTGGACGAAGCGCACTGGCCACAGCACTACCCCGCTGTGGGGCCAGAGACA
GTCGCCTATCAACCTACAGAGGACGAAGGTGCGGTACAACCCCTCCTGAAGGGCTCAATATGACAGGC
TATGAGACCCAGGCAGGGGAGTCCCATGGTCAACAATGGCCACACAGTGCAGATCAGCCTGCCCTCCA
CCATGCGCATGACAGTGGCTGACGGCACTGTATACATAGCCAGCAGATGCACTTTCAGTGGGGAGGTGC
GTCTCGGAGATCAGCGCTCTGAGCACACCGTGGACGGGATCAGACATGTGATCGAGATTCACATTGTT
CACTACAATTCTAAATACAAGAGCTATGATATAGCCCAAGATGCGCCGGATGGTTTGCTGTACTGGCAG
CCTTCGTTGAGGTGAAGAATTACCCTGAAAACACTTATTACAGCAACTTCATTTCTCATCTGGCCAAAT
CAAGTACCCAGGACAAAGAACAACCCCTGACTGGCCTTGACGTTTCAGGACATGCTGCCAGGAACCTCCAG
CACTACTACACCTACCATGGCTCACTCACCACGCTCCCTGCACTGAGAACGTCCTGGTTTGTGCTGG
CAGATTTGTCAAGCTCTCCAGGACACAGGTTTGAAGCTGGAGAATTCCTTACTGGATCACCAGCAACA
GACCATCCACAACGATTACCGCAGGACCCAGCCCTGAACCACAGAGTGGTGAATCCAACCTCCCGAAT
CAGGAATACACTTAGGCTCTGAATTCAGTTTTACCTACATAAGATTGAGGAAATCTTGACTACTTAA
GAAGAGCATTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214135 representing NM_001215
 Red=Cloning site Green=Tags(s)

MRALVLLLSLFLGGQAQHVSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYNPSLKGLNMTG
 YETQAGEFPMVNNHGTVQISLPSTMRMTVADGTVYIAQQMHFWGGASSEISGSEHTVDGIRHVIEIHIV
 HYNKYKSYDIAQDAPDGLAVLAFAFVEVKNPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQ
 HYYTYHGSLTPPCTENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLNHRVVESNFPN
 QEYTLGSEFQFYLHKIEEILDYLRRLN

TRTRPLE - GFP Tag - V

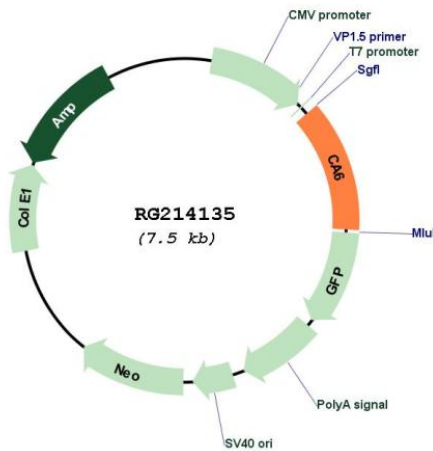
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001215

ORF Size: 924 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:	NM_001215.4
RefSeq Size:	1339 bp
RefSeq ORF:	927 bp
Locus ID:	765
UniProt ID:	P23280
Cytogenetics:	1p36.23
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Nitrogen metabolism
Gene Summary:	The protein encoded by this gene is one of several isozymes of carbonic anhydrase. This protein is found only in salivary glands and saliva and protein may play a role in the reversible hydration of carbon dioxide though its function in saliva is unknown. [provided by RefSeq, Jul 2008]