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Product datasheet for RC214135

CA6 (NM_001215) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CA6 (NM_001215) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CA6
Synonyms:	CA-VI; GUSTIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC214135 representing NM_001215
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGCCCTGGTGCTTCTGCTGTCCCTGTTCCTGCTGGGTGGCCAGGCCCAGCATGTGTCTGACTGGA
CCTACTCAGAAGGGGCACTGGACGAAGCGCACTGGCCACAGCACTACCCCGCCTGTGGGGGCCAGAGACA
GTCGCCTATCAACCTACAGAGGACGAAGGTGCGGTACAACCCCTCCTTGAAGGGGCTCAATATGACAGGC
TATGAGACCCAGGCAGGGGAGTTCCCCATGGTCAACAATGGCCACACAGTGCAGATCAGCCTGCCCTCCA
CCATGCGCATGACAGTGGCTGACGGCACTGTATACATAGCCCAGCAGATGCACTTTCACTGGGGAGGTGC
GTCCTCGGAGATCAGCGGCTCTGAGCACACCGTGGACGGGATCAGACATGTGATCGAGATTCACATTGTT
CACTACAATTCTAAATACAAGAGCTATGATATAGCCCAAGATGCGCCGGATGGTTTGGCTGTACTGGCAG
CCTTCGTTGAGGTGAAGAATTACCCTGAAAACACTTATTACAGCAACTTCATTTCTCATCTGGCCAACAT
CAAGTACCCAGGACAAAGAACAACCCTGACTGGCCTTGACGTTCAGGACATGCTGCCCAGGAACCTCCAG
CACTACTACACCTACCATGGCTCACTCACCACGCCTCCCTGCACTGAGAACGTCCACTGGTTTGTGCTGG
CAGATTTTGTCAAGCTCTCCAGGACACAGGTTTGGAAGCTGGAGAATTCCTTACTGGATCACCGCAACAA
GACCATCCACAACGATTACCGCAGGACCCAGCCCCTGAACCACAGAGTGGTGGAATCCAACTTCCCGAAT
CAGGAATACACTCTAGGCTCTGAATTCCAGTTTTACCTACATAAGATTGAGGAAATTCTTGACTACTTAA
GAAGAGCATTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

```
>RC214135 representing NM_001215
Red=Cloning site Green=Tags(s)

MRALVLLLSLFLLGGQAQHVSDWTYSEGALDEAHWPQHYPACGGQRQSPINLQRTKVRYNPSLKGLNMTG
YETQAGEFPMVNNGHTVQISLPSTMRMTVADGTVYIAQQMHFHWGGASSEISGSEHTVDGIRHVIEIHIV
HYNSKYKSYDIAQDAPDGLAVLAAFVEVKNYPENTYYSNFISHLANIKYPGQRTTLTGLDVQDMLPRNLQ
HYYTYHGSLTTPPCTENVHWFVLADFVKLSRTQVWKLENSLLDHRNKTIHNDYRRTQPLNHRVVESNFPN
QEYTLGSEFQFYLHKIEEILDYLRRALN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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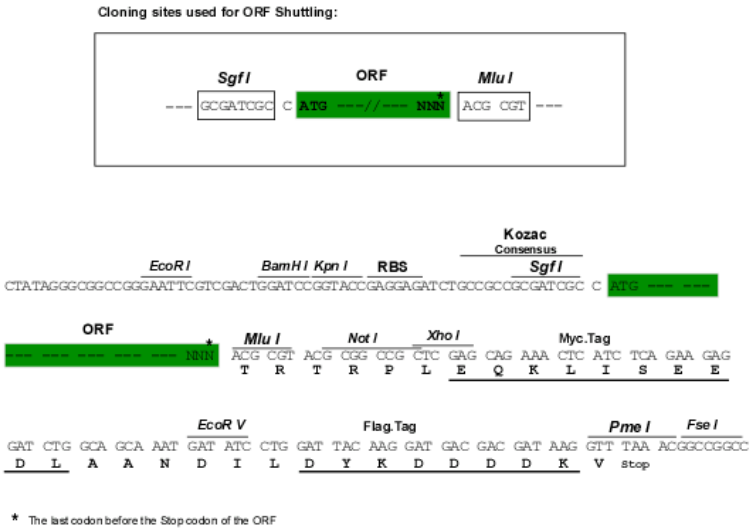
Chromatograms: https://cdn.origene.com/chromatograms/mk8007_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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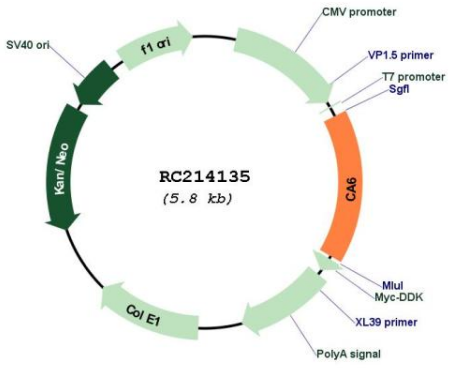
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_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
MW:	35.37 kDa
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 hydratation of carbon dioxide though its function in saliva is unknown. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214135

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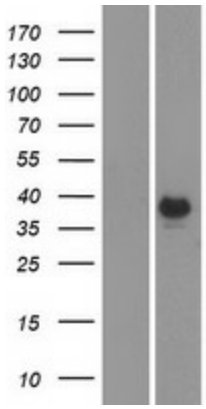
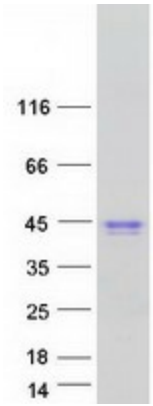


Western blot validation of overexpression lysate (Cat# [LY420071]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214135 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CA6 protein (Cat# [TP314135]). The protein was produced from HEK293T cells transfected with CA6 cDNA clone (Cat# RC214135) using MegaTran 2.0 (Cat# [TT210002]).

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