

## Product datasheet for **RC213425A1V**

### Human Carbonic anhydrase X (CA10) (NM\_020178) AAV Particle

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | AAV Particles                                                     |
| Product Name:             | Human Carbonic anhydrase X (CA10) (NM_020178) AAV Particle        |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | Carbonic anhydrase X                                              |
| Synonyms:                 | CA-RPX; CARPX; HUCEP-15                                           |
| Mammalian Cell Selection: | None                                                              |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                                        |
| ORF Nucleotide Sequence:  | >RC213425 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGAATAGTCTGGGAGGTGCTTTTTCTTCTCAAGCCAATTCATCGTCTGCATATCAGCTCAACAGA  
ATTCACCAAAATCCATGAAGGCTGGTGGGCATACAAGGAGGTGGTCCAGGGAAGCTTTGTTCCAGTTCC  
TTCTTTCTGGGGATTGGTGAATCAGCTTGAATCTTTGCTCTGTGGGAAACGGCAGTCGCCAGTCAAC  
ATAGAGACCAGTCACATGATCTTCGACCCCTTTCTGACACCTCTTCGCATCAACACGGGGGCGAGGAAGG  
TCAGTGGGACCATGTACAACACTGGAAGACACGTATCCCTTCGCCTGGACAAGGAGCACTTGGTCAACAT  
ATCTGGAGGGCCCATGACATACAGCCACCGGCTGGAGGAGATCCGACTACACTTTGGGAGTGAGGACAGC  
CAAGGGTCGGAGCACCTCCTCAATGGACAGGCCTTCTCTGGGAGGTGCAGCTCATCCACTATAACCATG  
AGCTATATACGAATGTCACAGAAGCTGCAAAGAGTCCAAATGGATTGGTGGTAGTTTCTATTTATAAA  
AGTTTCTGATTCATCAAACCATTTCTTAATCGAATGCTCAACAGAGATACTATCACAAGAATAACATAT  
AAAAATGATGCATATTTACTACAGGGGCTTAATATAGAGGAACTATATCCAGAGACCTCTAGTTTCATCA  
CTTACGATGGGTCGATGACTATCCACCCCTGCTATGAGACAGCAAGTTGGATCATAATGAACAAACCTGT  
CTATATAACCAGGATGCAGATGCATTCTTGCCTGCTCAGCCAGAACCAGCCATCTCAGATCTTTCTG  
AGCATGAGTGACAACCTCAGGCCTGTCCAGCCACTCAACAACCGCTGCATCCGCACCAATATCAACTTCA  
GTTTACAGGGGAAGGACTGTCAAACAACCGAGCCAGAAGCTTCAGTATAGAGTAAATGAATGGCTCCT  
CAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC213425 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MEIVWEVLFLLQANFIVCISAQQNSPKIHEGWWAYKEVVQGSFVPVPSFWGLVNSAWNLCVSGKRQSPVN<br/> IETSHMIFDPFLTPRLINTGGRKVSGTMYNTGRHVSLRLDKEHLVNISSGPMYSHRLEEIRLHFGSEDS<br/> QGSEHLLNGQAFSGEVQLIHYNHLYTNVTEAAKSPNGLVVVSIFIKVSDSSNPFLNRMLNRDTITRITY<br/> KNDAYLLQGLNIEELYPETSSFITYDGSMTIPPCYETASWIIMNKPVIITRMQMHSRLRLSQNQPSQIFL<br/> SMSDNFRPVQPLNNRCIRTNINFSLQKDCPNNAQKLQYRVNEWLLK</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| ACCN:             | NM_020178                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ORF Size:         | 984 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Buffer:           | PBS with 0.001% Pluronic F68                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Stability:        | AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.           |
| RefSeq:           | <u>NM_020178.3</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RefSeq Size:      | 3260 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RefSeq ORF:       | 987 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Locus ID:         | 56934                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UniProt ID:       | <u>Q9NS85</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cytogenetics:     | 17q21.33-q22                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW:               | 37.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |