

Specifications:

Gene:	<i>hCTSA</i>
Accession:	NP_001121167.1
Insert size:	1456bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

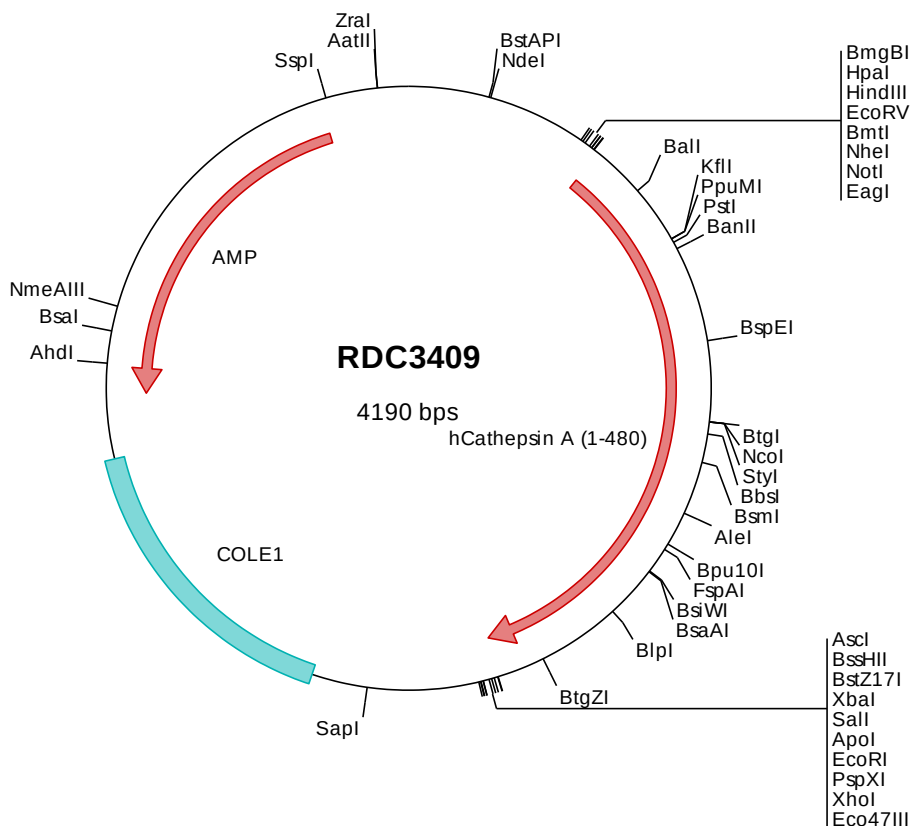
hCathepsin A cDNA Plasmid

CTSA cathepsin A [*Homo sapiens* (human)]

Also known as: GSL; GLB2; NGBE; PPCA; PPGB

Summary:

Cathepsin A is a member of the peptidase S10 family of serine carboxypeptidases. It is a multifunctional enzyme that expresses deaminidase and esterase activities at neutral pH and carboxypeptidase activity at acidic pH. Its association with beta-galactosidase (beta-gal) and neuraminidase is essential for beta-gal stability and neuraminidase activation in the lysosomes. Mutations in Cathepsin A are associated with galactosialidosis.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3409 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggaatgtctg caaggcgatt aagttgggta agccagggtt tttcccgatc acgacgttgt aaaacgacgg ccagtgtaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atgatccgag ccgcgcgcgc gccgctgttc ctgctgtg tgctgtact
501  gctgtctagt tcctggcgct ccgcagggca ggcagccccc gaccaggacg agatccagcg cctccccggg ctggccaagc agccgtcttt ccgccagtac
601  tcgggtacc tcaaaagctc cggctccaag caoctccact actggtttgt ggagtcccg aaggatcccg agaacagccc tgtgtgtgct tggtccaatg
701  gggggtcccg ctgcagctca ctagatgggc tcctcacaga gcattggccc ttcctggtgc agccagatgg tgtaaccctg gagtacaacc cctattcttg
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2201 tgctcactcg actcgtgcg ctcgtctggt gagcgggtatc agctcactca aagcggttaa tacggtttatc cacagaatca ggggataaacg ggggataaacg
2301 caggaaagaa ccatgttagca aaaggccagc aaaaggccag gaaccgttaa aaggccgcgt tgctggcggt tttccatagg ctccgcccc ctgacgagca
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4101 ttccccgaaa agtgccacct gacgtctaag aaaccattat tatcatgaca ttaacctata aaaataggcg tatcacgagg ccctttctgt

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> RDC3409 Translated Insert Sequence

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201  glavgnglss yeqndnslvy fayyhgilgn rlwsslqthc csqnknfnfy nkdlecvtln qevariogns glniynlyap caggvpshfr yekdtvvvd
301  lgniftrlpl krmwhqallr sgdkvrmdpp cntntaasty lnnpyvrkal nipeqlpqwd mcfnflnlqy rrlrysmnsq yklkllssqky qillyngdvd
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