

Product datasheet for **RR205988**

Cela2a (NM_012553) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cela2a (NM_012553) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cela2a
Synonyms: Ela2; Ela2a; ELAI1; Elaii1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205988 representing NM_012553
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATCAGGACACTGCTGCTATCTGCCTTGGTGGCTGGAGCTCTCAGCTGCGGGTACCCCACTTATGAGG
TCCAGCATGATGTGAGCAGGGTAGTTGGGGTCAAGAGGCCAGTCCCAACAGCTGGCCCTGGCAGGTCTC
CCTGCAGTACCTTCTCTGAAAAGTGGCACCACCTGCGGAGGCTCCCTGGTGGCCAACAACCTGGGTT
CTGACCGCTGCCATTGTATCAGCAACTCTAGGACCTACCGCGTCTGCTGGGCGGACACAGCCTCTCCA
CCTCGGAATCCGGCTCACTGGCTGTTCAAGTCTCCAAGCTTGTGGTCCATGAGAAGTGAACGCTCAAAA
GCTCTCCAACGGGAATGACATTGCCCTGGTCAAAGTGGCTAGCCAGTGGCCCTGACCAGCAAGATCCAG
ACGGCTTGCCTCCACCCGCTGGTACCATTCTGCCAAACAACACCCCTGCTACGTACAGGCTGGGGCC
GGCTGCAGACCAACGGAGCCACTCTGACGTCTGCAGCAGGGCCGTCTGCTGGTGTGGACTATGCCAC
CTGCTCCAGCGTAGCTGGTGGGAAGCTCCGTGAAGACCAACATGGTGTGCGCTGGTGGCAGCGGTGTG
ACCTCCAGCTGCAATGGGACTCCGGCGGACCACTGAATTGCCAGGCATCTAATGGCCAGTGGCAGGTGC
ACGGTATTGTGAGCTTTGGCTCCACTCTGGCTGCAACTACCCCGTAAGCCATCTGTCTTACCAGGGT
CTCCAACATCGACTGGATCAACTCGGTGATTGCAAAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205988 representing NM_012553
 Red=Cloning site Green=Tags(s)

MIRTL L L S A L V A G A L S C G Y P T Y E V Q H D V S R V V G G Q E A S P N S W P W Q V S L Q Y L S S G K W H H T C G G S L V A N N W
 L T A A H C I S N S R T Y R V L L G R H S L S T S E S G S L A V Q V S K L V V H E K W N A Q K L S N G N D I A L V K L A S P V A L T S K I Q
 T A C L P P A G T I L P N N Y P C Y V T G W G R L Q T N G A T P D V L Q Q G R L L V D Y A T C S S A S W W G S S V K T N M V C A G G D G V
 T S S C N G D S G G P L N C Q A S N G Q W Q V H G I V S F G S T L G C N Y P R K P S V F T R V S N Y I D W I N S V I A K N

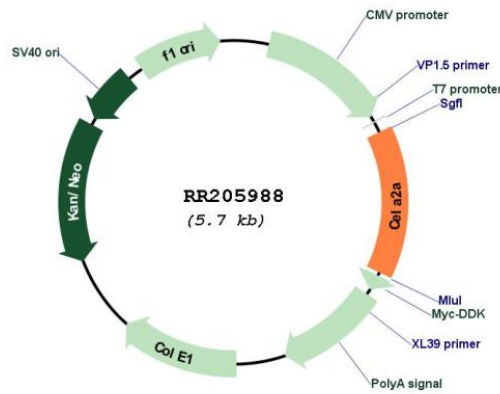
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012553
 ORF Size: 813 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_012553.2 , NP_036685.1
RefSeq Size:	908 bp
RefSeq ORF:	816 bp
Locus ID:	24332
UniProt ID:	P00774
Cytogenetics:	5q36
MW:	28.9 kDa
Gene Summary:	elastase enzyme predicted to have broad substrate specificity [RGD, Feb 2006]