

Product datasheet for **RC238407**

ADA2 (NM_001282227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2 (NM_001282227) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADA2
Synonyms:	ADGF; CECR1; IDGFL; PAN; SNEDS; VAIHS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC238407 representing NM_001282227
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGCGCTGGGGGGCGGCTGGTGCTGAACACCAAGGAGGAGCTGGCCAATGAGAGGCTCATGACGC
 TCAAAATCGCTGAGATGAAGGAGCCATGAGGACCCTGATATTCCACCCAGCATGCACTTTTTCCAGGC
 CAAGCATCTCATTGAGAGAAGTCAAGTGTTTAATATTCTAAGGATGATGCCAAAAGGGGCTGCCTTGAC
 CTCCATGACATTGGCATCGTGACTATGGACTGGCTGGTGAAGAAATGTACCTACAGGCCTCACTGCCACA
 TCTGTTTCACCCCAAGGGGATCATGCAGTTCAGATTTGCTCACCAACTCCCGTCCATCAGAAAAATG
 TTCCAAGTGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCCTGAGTTTGATGACAGCTTG
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 AATTTGAAACCATCTTCTCACCATCTCTGGTCTCATCCATTACGCACCAGTGTTCAGAGACTATGTCTT
 CCGGAGCATGCAGGAGTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTG
 TATGAGCTCAGTGAGAGACCATGACGAAGAGTGGTCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGT
 TTGTGGAAACTCACCTGAGTTTATTGGAATCAAATCATTTATTCGGATCACAGATCCAAGATGTGGC
 TGTATCGCAGAAATCCATCCGAATGGCCATGGGCTCCGAATCAAGTCCCCACGGTGGTGGCAGGGTTT
 GACCTGGTGGGCGATGAGGACTGGCCACTCCTTGATGACTACAAGGAAGCTCTGATGATCCCGCCA
 AGGATGGCGTTAAGTGCCTTACTTCTCCACGCCGAGAAACAGACTGGCAGGGTACTTCCATAGACAG
 GAACATTCTGGATGCTCTGATGCTGAACACTACCAGAAATCGGCCATGGATTTGCTTTGAGCAAACCCCC
 GCAGTCAGGACTTACTCCTGGAAAAAGGACATCCCATAGAAGTCTGTCCATCTCTAACAGGTGCTGA
 AACTGGTGTCTGACTTGAGGAACCACCTGTAGCCACTCTGATGGCCACTGGGCACCCCATGGTGGCAG
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 TGGAGAGTGAGAAAAATACTTTTCATGGAATCTGGAAGAAGAGATGGGATAAGTTCATAGCAGATGTGGC
 TACAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238407 representing NM_001282227
 Red=Cloning site Green=Tags(s)

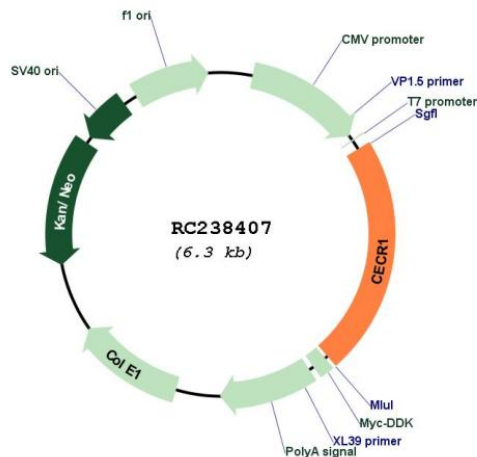
MMRLGGRLVLNTKEELANERLMTLKIEMKEAMRTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALH
 LHDIGIVTMDWLVRNVYRPHCHICFTPRGIMQFRFAHPTPRPSEKCSKWILLEDYRKRQNVTEFDDSL
 LRNFTLVQHPVEIYTNQNVVWSKFETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNLYMEIRARLLPV
 YELSGEHHDEEWSVKTYQEVAQKFVETHPEFIGIKIISDHRKDVAVIAESIRMAMGLRIKFPVAVAGF
 DLVGHEDTGHSLHDYKEALMIPAKDGVKLPYFFHAGETDQGTSIDRNILDALMLNTRIGHGFALSKHP
 AVRTYSWKKDIPIEVCPISNQVLKLVSDLRNHPVATLMATGHPMVISDDPAMFGAKGLSYDFYEVFMGI
 GGMKADLRTLKQLAMNSIKYSTLLESEKNTFMEIWKRWDFIADVATK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001282227

ORF Size:

1407 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:

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_001282227.2](#)

RefSeq Size: 4283 bp

RefSeq ORF: 1410 bp

Locus ID: 51816

UniProt ID: [Q9NZK5](#)

Cytogenetics: 22q11.1

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 54.8 kDa

Gene Summary: This gene encodes a member of a subfamily of the adenosine deaminase protein family. The encoded protein is one of two adenosine deaminases found in humans, which regulate levels of the signaling molecule, adenosine. The encoded protein is secreted from monocytes undergoing differentiation and may regulate cell proliferation and differentiation. This gene may be responsible for some of the phenotypic features associated with cat eye syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]