

## Product datasheet for **RC238646**

### ADA2 (NM\_001282226) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2 (NM_001282226) 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



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**ORF Nucleotide Sequence:**

>RC238646 representing NM\_001282226  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTGGTGGATGGCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTCT  
 TCGGCTCAGCTCTATCCATAGATGAAACACGGGCGCATCTGTTGTTGAAAGAAAAGATGATGCGGCTGGG  
 GGGCGGCTGGTCTGAACACCAAGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAAATCGCTGAG  
 ATGAAGGAGGCCATGAGGACCCTGATATCCACCACGATGCACTTTTTCCAGGCCAAGCATCTCATTG  
 AGAGAAGTCAAGTGTAAATATTCTAAGGATGATGCCAAAAGGGGCTGCCTTGACCTCCATGACATTGG  
 CATCGTACTATGGACTGGTGGTGAAGATGTCACCTACAGGCCTCACTGCCACATCTGTTTACCCCA  
 AGGGGATCATGCAGTTCAGATTTGCTCACCAACTCCCCGTCCATCAGAAAAATGTTCCAAGTGGATTC  
 TGCTGGAGGATTATCGGAAGCGGTGCAGAACGCTCACTGAGTTTGTGACAGCTTGCTGAGGAATTCAC  
 TCTGGTACCCAGCACCCGGAGGTGATTTACACAAACCAAAATGTTGCTGGTCAAATTTGAAACCATC  
 TTCTTACCATCTCTGGTCTCATCCATTACGCACCAAGTGTTCAGAGACTATGCTTCCGGAGCATGCAGG  
 AGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGCTCAGTGG  
 AGAGCACCATGACGAAGAGTGGTCAAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAACTCAC  
 CCTGAGTTTATTGGAATCAAAATCATTTATTCCGGATCACAGATCCAAAGATGTGGCTGTCATCGCAGAA  
 CCATCCGAATGGCCATGGGGCTCCGAATCAAGTCCCCACGGTGGTGGCAGGGTTTACCTGGTGGGGCA  
 TGAGGACACTGGCCACTCCTTGCATGACTACAAGGAAGCTCTGATGATCCCCGCAAGGATGGCGTTAAG  
 CTGCCTTACTTCTCCACGCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATG  
 CTCTGATGCTGAACACTACCAGAATCGCCATGGATTTGCTTTGAGCAACACCCCGCAGCTCAGGATTA  
 CTCTGGAAGAAAGGACATCCCCATAGAAGTCTGTCCCATCTCTAACAGGTGCTGAAACTGGTGTCTGAC  
 TTGAGGAACACCTGTAGCCACTCTGATGGCCACTGGGACCCCATGGTGTGATCAGCTCTGATGACCCAG  
 CTATGTTTGGTGCCTAAGGCTTGTCTATGATTCTATGAGGTCTTATGGGCATTGGGGGATGAAGGC  
 TGACCTGAGGACCCTCAACAGCTGGCCATGAAGTCTATCAAGTACAGTACCCTGTTGGAGAGTGAGAAA  
 AATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCATAGCAGATGTGGCTACAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238646 representing NM\_001282226  
 Red=Cloning site Green=Tags(s)

MLVDGPSEPALCFLLLAVAMSFSGSALSIDETRAHLLLKEKMMRLGGRLVLNNTKEELANERLMTLKIAE  
 MKEAMRTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVNVTYRPHCHICFTP  
 RGIMQFRFAHPTPRPSEKCSKWILLEDYRKRQNVTEFDDSLLRNFTLVQHPVEIYTNQNVVSKFETI  
 FFTISGLIHYAPVFRDYVFRSMQEFYEDNVLMEIRARLLPVYELSGEHHDEEWSVKTYQEVAQKFVETH  
 PEFIGIKI IYSDHRKDVAVIAESIRMAMGLRIKFPTVVAGFDLVGHEDTGHSLHDKYKEALMIPAKDGVK  
 LPYFHHAGETDWQGTSIDRNILDALMLNTRIGHGFALSKHPAVRTYSWKKDPIIEVCPISNQVLKLVSD  
 LRNHPVATLMATGHPMVISDDPAMFGAKGLSYDFYEVFMGIGMKADLRTLKQLAMNSIKYSTLLESEK  
 NTFMEIWKRWKFIADVATK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

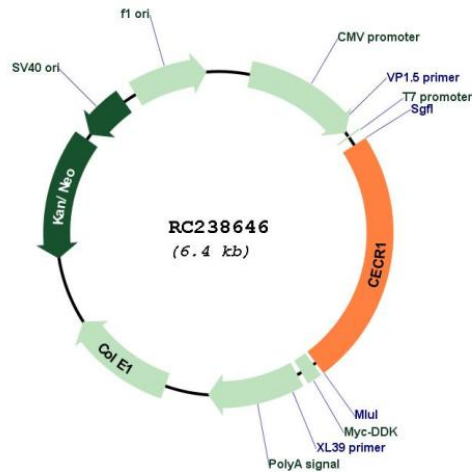
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001282226

**ORF Size:** 1533 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\\_001282226.2](#)

**RefSeq Size:** 4477 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 51816

**UniProt ID:** [Q9NZK5](#)

**Cytogenetics:** 22q11.1

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**MW:** 59.4 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]