

Product datasheet for RC237925

ADA2 (NM_001282229) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ADA2 (NM_001282229) 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
ORF Nucleotide Sequence: >RC237925 representing NM_001282229
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACTGGCTGGTGAGGAATGTCACCTACAGGCCTCACTGCCACATCTGTTTCACCCCAAGGGGGATCA
TGCAGTTCAGATTTGCTCACCAACTCCCCGTCCATCAGAAAAATGTTCCAAGTGGATTCTGCTGGAGGA
TTATCGGAAGCGGGTGCAGAACGTCAGTGGATTTGATGACAGCTTGTCTGAGGAATTTCACTCTGGTGACC
CAGCACCCGGAGGTGATTTACACAAACAAAATGTTGTCTGGTCGAAATTTGAAACCATCTTCTCACCA
TCTCTGGTCTCATCCATTACGCACCAAGTGTTCAGAGACTATGTCTTCCGGAGCATGCAGGAGTTCTACGA
GGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGCTCAGTGGAGAGCACCAT
GACGAAGAGTGGTCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAAACTCACCTGAGTTTA
TTGGAATCAAAATCATTATTCGGATCACAGATCCAAAGATGTGGCTGTCATCGCAGAATCCATCCGAAT
GGCCATGGGGCTCCGAATCAAGTTCACCGGTGGTGGCAGGGTTTGACCTGGTGGGCATGAGGACACT
GGCCACTCCTTGATGACTACAAGGAAGCTCTGATGATCCCCGCAAGGATGGCGTTAAGCTGCCTTACT
TCTTCCACGCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCT
GAACACTACCAGAATCGCCATGGATTTGCTTTGAGCAAACACCCGAGTCAAGGACTTACTCCTGGAAA
AAGGACATCCCCATAGAAGTCTGTCCCCTCTTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACC
ACCCTGTAGCCACTCTGATGGCCACTGGCACCCCATGGTATCAGCTCTGATGACCCAGCTATGTTTGG
TGCCAAAGGCTTGTCTATGATTTCTATGAGGTCTTATGGGCATTGGGGGGATGAAGGCTGACCTGAGG
ACCCTCAAACAGCTGGCCATGAACCTATCAAGTACAGTACCCTGTTGGAGAGTGAGAAAAATACTTTCA
TGGAAATCTGGAAGAAGAGATGGGATAAGTTCATAGCAGATGTGGCTACAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237925 representing NM_001282229
Red=Cloning site Green=Tags(s)

MDWLVRNVYRPHCHICFTPRGIMQFRFAHPTPRPSEKCSKWILLEDYRKRQVNVTEFDDSLRNFTLVT
 QHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNVLMEIRARLLPVYELSGEHH
 DEEWSVKTYQEVAKQFVETHPEFIGIKIIYSDHRSKDVAVIAESIRMAMGLRIKFPTVVAGFDLVGHEDT
 GHSLHDYKEALMIPAKDGVKLPYFFHAGETDWQGTSIDRNILDALMLNTRIGHGFALSKHPAVRTYSWK
 KDIPIEVCPI SNQVLKLVSDLRNHPVATLMATGHMPMVISSDDPAMFGAKGLSYDFYEVFMGIGGMKADLR
 TLKQLAMNSIKYSTLLESEKNTFMEIWKKRWDKFIADVATK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

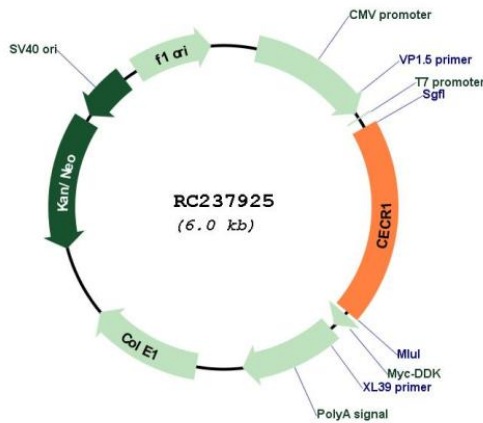
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282229

ORF Size:	1173 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_001282229.1 , NP_001269158.1
RefSeq Size:	4142 bp
RefSeq ORF:	1176 bp
Locus ID:	51816
UniProt ID:	Q9NZK5
Cytogenetics:	22q11.1
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	45.8 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]