

## Product datasheet for **RG238646**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2 (NM_001282226) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADA2
Synonyms:	ADGF; CECR1; IDGFL; PAN; SNEDS; VAIHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238646 representing NM\_001282226.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTGGTGGATGGCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTT
TTGGCTCAGCTCTATCCATAGATGAAACACGGGCGCATCTGTTGTTGAAAGAAAAGATGATGCGGCTG
GGGGGGCGGCTGGTGTGAACACCAAGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAATCGCT
GAGATGAAGGAGGCCATGAGGACCTGATATCCACCCAGCATGCACTTTTTCCAGGCCAAGCATCTC
ATTGAGAGAAGTCAAGTGTAAATATTCTAAGGATGATGCCAAAAGGGGCTGCCTTGACCTCCATGAC
ATTGGCATCGTGACTATGGACTGGCTGGTGAAGATGTCACCTACAGGCCTCACTGCCACATCTGTTTC
ACCCCAAGGGGGATCATGCAGTTCAGATTTGCTCACCCAACTCCCGTCCATCAGAAAAATGTTCCAAG
TGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGTGATGACAGCTTGTGAGG
AATTTCACTCTGGTGACCCAGCACCAGGATTTACACAAACCAAAATGTTGTCTGGTGGAAATTT
GAAACCATCTTTCACCATCTCTGGTCTCATCCATTACGCACCACTGTTGAGAGACTATGTCTCCGG
AGCATGCAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTAT
GAGCTCAGTGGAGAGCACCATGACGAAGAGTGGTCAAGACTTACCAGGAAGTAGCTCAGAAGTTT
GTGAAAACACCCCTGAGTTTATTGGAATCAAAATCATTATTCCGGATCAGATCCAAAGATGTGGCT
GTCATCGCAGAAATCCATCCGAATGGCCATGGGGCTCCGAATCAAGTTCCACCGTGGTGGCAGGGTTT
GACCTGGTGGGGCATGAGGACTGGCCACTCCTTGCATGACTACAAGGAAGCTCTGATGATCCCGCC
AAGGATGGCGTTAAGCTGCCTTACTTCTCCACGCCGAGAAACAGACTGGCAGGGTACTTCCATAGAC
AGGAACATTCTGGATGCTCTGATGCTGAACACTACCAGAATCGGCCATGGATTTGCTTTGAGCAAACAC
CCCGCAGTCAAGACTTACTCTGAAAAAGGACATCCCATAGAAGTCTGTCCCATCTTAACAGGTG
CTGAAACTGGTGTGACTTGAAGAACCCCTGTAGCCACTCTGATGGCCACTGGGCACCCCATGGTG
ATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTTGCCTATGATTTCTATGAGGTCTTCATG
GGCATTGGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACTCTATCAAGTACAGT
ACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCATAGCA
GATGTGGCTACAAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238646  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLVDGPSEPALCFLLLAVAMSFSGALSIDETRAHLLLKEKMMRLGGRLVLNNTKEELANERLMTLKIA
EMKEAMRTLIFPPSMHFFQAKHLIERSQVFNILRMPKGAALHLHDIGIVTMDWLVNVTYRPHCHICF
TPRGMQFRFAHPTPRPSEKCSKWLLEDYRKRQVNVTEFDDSLRNFTLVQHPVEIYTNQNVVSKF
ETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNVLMEIRARLLPVYELSGEHHDEEWSVKTYQEVAQKF
VETHPEFIGIKIISDHRKDVAVIAESIRMAAGLRIFPTVVAGFDLVGHEDTGHSLHDYKEALMIPA
KDGVKLPYFFHAGETDWQGSIDRNILDALMLNTRIGHGFALSKHPAVRTYSWKKDPIEVCPISNQV
LKLVSDLRNHPVATLMATGHPMVISDDPAMFGAKGLSYDFYEVFMIGGMKADLRLLKQLAMNSIKYS
TLLSEKNTFMEIWKRWDFIADVATK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**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).

**RefSeq:** [NM\\_001282226.2](#)

**RefSeq Size:** 4477 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 51816

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

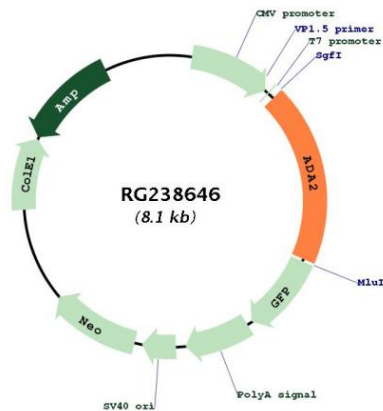
**Cytogenetics:** 22q11.1

**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]

**Product images:**


Circular map for RG238646