

## Product datasheet for **RG237925**

### ADA2 (NM\_001282229) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2 (NM_001282229) 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)
ORF Nucleotide Sequence:	>RG237925 representing NM_001282229. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGACTGGCTGGTGAGGAATGTCACCTACAGGCCTCACTGCCACATCTGTTTCACCCCAAGGGGGATC
ATGCAGTTCAGATTTGCTCACCCAACCTCCCGTCCATCAGAAAAATGTTCCAAGTGGATTCTGCTGGAG
GATTATCGGAAGCGGGTGCAGAACGTCAGTGGTTGATGACAGCTTGCTGAGGAATTTCACTCTGGTG
ACCCAGCACCCGGAGGTGATTTACACAAACCAAAATGTTGTCTGGTCGAAATTTGAAACCATCTTCTTC
ACCATCTCTGGTCTCATCCATTACGCACCAGTGTTCAGAGACTATGTCTCCGGAGCATGCAGGAGTTC
TACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGCTCAGTGGAGAG
CACCATGACGAAGAGTGGTCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGAAACTCACCT
GAGTTTATTGGAATCAAATCATTATTCGGATCACAGATCCAAAGATGTGGCTGTATCGCAGAATCC
ATCCGAATGGCCATGGGGCTCCGAATCAAGTTCACCGGTGGTGGCAGGGTTTGACCTGGTGGGGCAT
GAGGACACTGGCCACTCCTTGATGACTACAAGGAAGCTGTATGATCCCGCCAAGGATGGCGTTAAG
CTGCCTTACTTCTCCACGCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGAT
GCTCTGATGCTGAACACTACCAGAATCGGCCATGGATTTGCTTTGAGCAAACACCCCGCAGTCAGGACT
TACTCTGGAAAAAGGACATCCCATAGAAGTCTGTCCCATCTTAACCAGGTGCTGAAACTGGTGTCT
GACTTGAGGAACCACCCTGTAGCCACTCTGATGGCCACTGGCACCCCATGGTGATCAGCTGATGAC
CCAGCTATGTTTGGTGCCAAAGGCTTGCTATGATTTCTATGAGGTCTTCATGGGCATTGGGGGGATG
AAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACTCTATCAAGTACAGTACCCTGTTGGAGAGT
GAGAAAAATACTTTCATGGAATCTGGAAGAAGAGATGGGATAAGTTCATAGCAGATGTGGCTACAAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237925  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDWLVRNVYRPHCHICFTPRGIMQFRFAHPTPRPSEKCSKWILLEDYRKRQNVTEFDDSLRNFTLV  
 TQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNVLMEIRARLLPVYELSGE  
 HHDEEWSVKTYQEVAQKFVETHPEFIGIKIISDHRSKDVAVIAESIRMAMGLRIKFPTTVAGFDLVGH  
 EDTGHSLSHDYKEALMIPAKDGVKLPYFFHAGETDWOQTSIDRNILDALMLNTRIGHGFALSKHPAVRT  
 YSWKKDIPIEVCPISNQVLKLVSDLRNHPVATLMATGHPMVISSDDPAMFGAKGLSYDFYEVFMGIGGM  
 KADLRTLKQLAMNSIKYSTLLESEKNTFMEIWKRWDFIADVATK  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

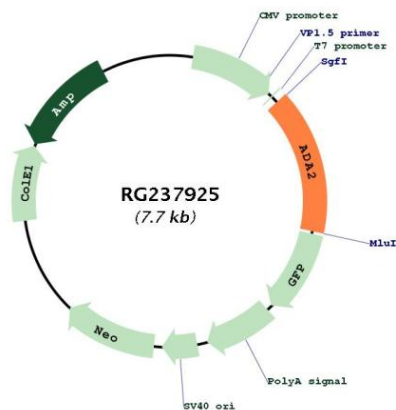
**RefSeq:** [NM\\_001282229.1](#), [NP\\_001269158.1](#)

**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]

### Product images:



Circular map for RG237925