

Product datasheet for **RG238645**

ADA2 (NM_001282225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2 (NM_001282225) 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:

>RG238645 representing NM_001282225.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTGGTGGATGGCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTT
TTGGCTCAGCTCTATCCATAGATGAAACACGGGCGCATCTGTTGTTGAAAGAAAAGATGATGCGGCTG
GGGGGGCGGCTGGTGTGAACACCAAGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAATCGCT
GAGATGAAGGAGGCCATGAGGACCTGATATCCACCCAGCATGCACTTTTTCCAGCCAAGCATCTC
ATTGAGAGAAGTCAAGTGTAAATATTCTAAGGATGATGCCAAAAGGGGCTGCCTTGACCTCCATGAC
ATTGGCATCGTACTATGGACTGGCTGGTGAAGATGTCACCTACAGGCCTCACTGCCACATCTGTTTC
ACCCCAAGGGGGATCATGCAGTTCAGATTTGCTCACCCAACTCCCGTCCATCAGAAAAATGTTCCAAG
TGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGTGATGACAGCTTGTGAGG
AATTTCACTCTGGTGACCCAGCACCAGGATTTACACAAAACAAAATGTTGTCTGGTGGAAATTT
GAAACCATCTTTCACCATCTCTGGTCTCATCCATTACGCACCACTGTTTCCAGAGACTATGTCTCCGG
AGCATGCAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTAT
GAGCTCAGTGGAGAGCACCATGACGAAGAGTGGTCAAGACTTACCAGGAAGTAGCTCAGAAGTTT
GTGAAAACACCCCTGAGTTTATTGGAATCAAAATCATTATTCCGGATCAGATCCAAAGATGTGGCT
GTCATCGCAGAATCCATCCGAATGGCCATGGGGCTCCGAATCAAGTTCCACCGTGGTGGCAGGGTTT
GACCTGGTGGGGCATGAGGACTGGCCACTCCTTGATGACTACAAGGAAGCTCTGATGATCCCGCC
AAGGATGGCGTTAAGCTGCCTTACTTCTCCACGCCGAGAAACAGACTGGCAGGGTACTTCCATAGAC
AGGAACATTCTGGATGCTCTGATGCTGAACACTACCAGAATCGCCATGGATTTGCTTTGAGCAAACAC
CCCGCAGTCAAGACTTACTCTGGAAAAAGGACATCCCATAGAAGTCTGTCCCATCTTAACAGGTG
CTGAAACTGGTGTGACTTGAGGAACCCCTGTAGCCACTCTGATGGCCACTGGGCACCCCATGGTG
ATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTTGTCTATGATTTCTATGAGGTCTTCATG
GGCATTGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACTCTATCAAGTACAGT
ACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAATCTGGAAGAAGAGATGGGATAAGTTCATAGCA
GATGTGGCTACAAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238645
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLVDGPSEPALCFLLLAVAMSFSGALSIDETRAHLLLKEKMMRLGGRLVLNNTKEELANERLMTLKIA
EMKEAMRTLIFPPSMHFFQAKHLIERSQVFNILRMPKGAALHLHDIGIVTMDWLVNVTYRPHCHICF
TPRGMQFRFAHPTPRPSEKCSKWLLEDYRKRQVNVTEFDDSLRNFTLVQHPVEIYTNQNVVSKF
ETIFFTISGLIHYAPVFRDYVFRSMQEFYEDNVLMEIRARLLPVYELSGEHHDEEWSVKTYQEVAQKF
VETHPEFIGIKIISDHRKDVAVIAESIRMAAGLRIFPTVVAGFDLVGHEDTGHSLHDYKEALMIPA
KDGVKLPYFFHAGETDWQGSIDRNILDALMLNTRIGHGFALSKHPAVRTYSWKKDPIEVCPISNQV
LKLVSDLRNHPVATLMATGHPMVISDDPAMFGAKGLSYDFYEVFMIGGMKADLRLLKQLAMNSIKYS
TLLESEKNTFMEIWKRWKFIADVATK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001282225

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_001282225.2](#)

RefSeq Size: 4510 bp

RefSeq ORF: 1536 bp

Locus ID: 51816

UniProt ID: [Q9NZK5](#)

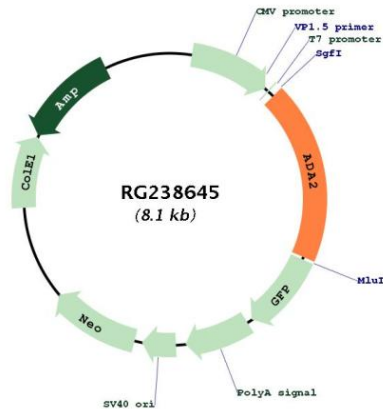
Cytogenetics: 22q11.1

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 RG238645