

## Product datasheet for SC312735

### ADA2 (NM\_177405) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2 (NM_177405) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADA2
Synonyms:	ADGF; CECR1; IDGFL; PAN; SNEDS; VAIHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC312735 representing NM_177405. Blue=Insert sequence Red=Cloning site Green=Tag(s)

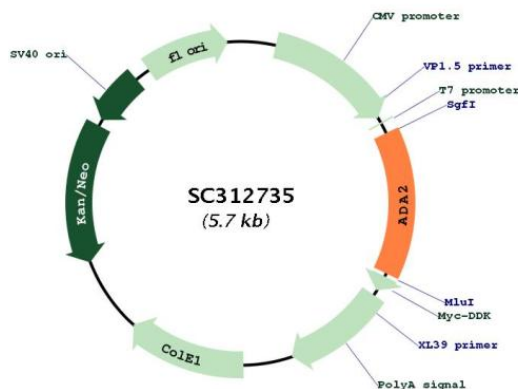
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGATCCCTGGAATGGAAGTGGGCTCTGGTGTATGAGCTCAGTGGAGAGCACCATGACGAAGAGTGG
TCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAACTCACCTGAGTTTATTGGAATCAAA
ATCATTATTTCGGATCACAGATCCAAAGATGTGGCTGTCATCGCAGAATCCATCCGAATGGCCATGGGG
CTCCGAATCAAGTTCCCCACGGTGGTGGCAGGGTTTGACCTGGTGGGGCATGAGGACACTGGCCACTCC
TTGCATGACTACAAGGAAGCTCTGATGATCCCCGCCAAGGATGGCGTTAAGCTGCCTTACTTCTCCAC
GCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCTGAACACT
ACCAGAATCGGCCATGGATTTGCTTTGAGCAAACACCCCGCAGTCAGGACTTACTCTGGAAAAAGGAC
ATCCCCATAGAAGTCTGTCCCATCTCTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACACCCT
GTAGCCACTCTGATGGCCACTGGGCACCCCATGGTGATCAGCTCTGATGACCCAGCTATGTTTGGTGCC
AAAGGCTTGTCCTATGATTTCTATGAGGTCTTCATGGGCATTGGGGGATGAAGGCTGACCTGAGGACC
CTCAAACAGCTGGCCATGAACTCTATCAAGTACGTACCCTGTTGGAGAGTGAGAAAAATACTTTTCATG
GAAATCTGGAAGAAGAGATGGGATAAGTTCATAGCAGATGTGGCTACAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_177405

Insert Size: 813 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177405.2</a>
<b>RefSeq Size:</b>	3716 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	51816
<b>UniProt ID:</b>	<a href="#">Q9NZK5</a>
<b>Cytogenetics:</b>	22q11.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>MW:</b>	30.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 3. The resulting isoform (b) has a shorter N-terminus compared to isoform a.</p>