

Product datasheet for **SC113038**

AICDA (NM_020661) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AICDA (NM_020661) Human Untagged Clone
Tag:	Tag Free
Symbol:	AICDA
Synonyms:	AID; ARP2; CDA2; HEL-S-284; HIGM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113038 sequence for NM_020661 edited (data generated by NextGen Sequencing)

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ATGGACAGCCTCTTGATGAACCGGAGGAAGTTTCTTTACCAATTCAAAAATGTCCGCTGG
GCTAAGGGTCGGCGTGAGACCTACCTGTGCTACGTAGTGAAGAGGCGTGACAGTGCTACA
TCCTTTTCACTGGACTTTGGTTATCTTCGCAATAAGAACGGCTGCCACGTGGAATTGCTC
TTCCTCCGCTACATCTCGGACTGGGACCTAGACCCTGGCCGCTGCTACCGCGTCACCTGG
TTCACCTCCTGGAGCCCCTGCTACGACTGTGCCCGACATGTGGCCGACTTCTGCGAGGG
AACCCCAACCTCAGTCTGAGGATCTTCACCGCGCGCCTCTACTTCTGTGAGGACCGCAAG
GCTGAGCCCGAGGGGCTGCGGCGGCTGCACCGCGCCGGGGTGCAAATAGCCATCATGACC
TTCAAAGATTATTTTACTGCTGGAATACTTTTGTAGAAAACCATGAAAGAACTTTCAA
GCCTGGGAAGGGCTGCATGAAAATTCAGTTCGTCTCTCCAGACAGCTTCGGCGCATCCTT
TTGCCCTGTATGAGGTTGATGACTTACGAGACGCATTTTCGTACTTTGGGACTTTGA

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Clone variation with respect to NM_020661.2
465 c=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_020661 unedited ACGACTCACTATATGGCGGCCGCGAATTCGGCACGAGGGAACCATCATTAAATTGAAGTGA GATTTTTCTGGCCTGAGACTTGCAGGGAGGCAAGAAGACACTCTGGACACCACTATGGAC AGCCTCTTGATGAACCGGAGGAAGTTTCTTTACCAATTCAAAAATGTCCGCTGGGCTAAG GGTCGGCGTGAGACCTACCTGTGCTACGTAGTGAAGAGGCGTGACAGTGTACATCCTTT TCACTGGACTTTGGTTATCTTCGCAATAAGAACGGCTGCCACGTGGAATTGCTCTTCCTC CGCTACATCTCGGACTGGGACCTAGACCCTGGCCGCTGCTACCGGTCACCTGGTTCCACC TCCTGGAGCCCCTGCTACGACTGTGCCGACATGTGGCCGACTTCTGCGAGGGAACCCC AACCTCAGTCTGAGGATCTTCACCGCGCCTCTACTTCTGTGAGGACCGCAAGGCTGAG CCCAGGGGCTGCGGCGGCTGCACCGCGCCGGGTGCAAATAGCCATCATGACCTTCAA GATTATTTTTACTGCTGGAATACTTTGTAGAAAACCATGAAAGAAGCTTCAAAGCCTGG GAAGGGCTGCATGAAAATTCAGTTCGTCTCTCCAGACAGCTTCNGCGCATCCTTTTGCC CTGTATGAGGTTGATGACTTACGAGACGCATTTCTGACTTTGGGACTTTGATAGCAACT CCAGGAATGTCACACACGATGAAATTN
Restriction Sites:	Please inquire
ACCN:	NM_020661
Insert Size:	1500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_020661.1 , NP_065712.1
RefSeq Size:	2791 bp
RefSeq ORF:	597 bp
Locus ID:	57379
UniProt ID:	Q9GZX7
Cytogenetics:	12p13.31
Protein Families:	Druggable Genome
Protein Pathways:	Primary immunodeficiency

Gene Summary:

This gene encodes a RNA-editing deaminase that is a member of the cytidine deaminase family. AICDA is specifically expressed and active in germinal center-like B cells. In the germinal center, AICDA is involved in somatic hypermutation, gene conversion, and class-switch recombination of immunoglobulin genes. An epigenetic role in neoplastic transformation and lymphoma progression has been experimentally ascribed to AICDA using mouse models. Defects in this gene are the cause of autosomal recessive hyper-IgM immunodeficiency syndrome type 2 (HIGM2). [provided by RefSeq, Jul 2020]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).