

Product datasheet for **SC334937**

ASZ1 (NM_001301822) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASZ1 (NM_001301822) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASZ1
Synonyms:	ALP1; ANKL1; C7orf7; CT1.19; GASZ; Orf3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301822, the custom clone sequence may differ by one or more nucleotides

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ATGCTACAAACCAAGATGGAAAGATGCCAAGTGAGATTGCAAAAAGAAACAAACATCATGAGATCTTCA
ACTTACTTTCTTTTACTTTAAATCCATTGGAAGGAAAACCTCAACAGCTAACTAAAGAAGACACTATTTG
TAAATATTGACAACAGATTCTGATAGAGAAAAAGATCACATTTTTAGTTCATATACAGCATTGGAGAT
CTGGAAGTATTTTACATGGTCTTGACTTGAACATATGACAGATTTACTAAAGGAAAGGGATATAACGT
TAAGACATCTTTGACCATGAGGGAAGATGAATTTACAAAGAATGGAATTACCAGTAAAGACCAGCAGAA
AATTCTGGCTGCTCTTAAAGAACTACAGGTAGAAGAGATAACAATTTGGAGAGCTATCTGAAGAGACAAG
TTGAAATCAGTGGTGATGAGTTCCTCACTTTCTCTCAAATTAATAAACAGTGTGGCATTAAATAA
CAGCTGTACAGAAATGTTATTACTGAGTTACCTGTAAATTCCTCAAAGATAACACTGGAATGGGCTTCTCC
CCAGAATTTTACTTCAGTTTGTGAAGAATTGGTTAATAATGTTGAAGATTTGAGTGAAAAGGTCTGCAAA
CTAAAAGACCTAATTCAAAGTTGCAAAATGAACGGGAAAATGATCCAACATACATAACAATTAAGGGGAA
AAGTATCTACATGGAATAGTAGAATTTGAAGAGGACAGCTATTACCATATGCGGATTCGGTTTTCTTCT
TTTCATTTGCAAGCTAACTTTCCAGAGGAAATAA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001301822
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).



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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:	<u>NM_001301822.1, NP_001288751.1</u>
RefSeq Size:	1753 bp
RefSeq ORF:	804 bp
Locus ID:	136991
UniProt ID:	<u>Q8WWH4</u>
Cytogenetics:	7q31.2
Gene Summary:	<p>Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with pi-bodies suggests a participation in the primary piRNAs metabolic process. Required prior to the pachytene stage to facilitate the production of multiple types of piRNAs, including those associated with repeats involved in the regulation of retrotransposons. May act by mediating protein-protein interactions during germ cell maturation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream start codon compared to variant 1. It encodes isoform 3 which has a shorter N-terminus compared to isoform 1.</p>