

Product datasheet for **SC305898**

ASZ1 (NM_130768) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
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:	>SC305898 representing NM_130768. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCGGCGAGCGCGCTGCGAGGCTGCCAGTGGCTGGCGGAGCGAGAGTAGCGAGAGCGAGGATGAT GGCTGGGAGATTGGGTATCTCGACCGGACGTCTCAGAAATTGAAAAGGCTATTACCCATTGAAGAAAAG AAAGAAAAATTTAAGAAAGCAATGACCATCGGAGATGTTTCATTGGTCCAGGAGCTCCTAGATTCTGGC ATTAGTGATAGATTCCAACCTTTTCAGTATGGATGGACTCCCTTATGTATGCTGCTAGTGTGCCAATGCA GAGCTGGTTCGGGTCTTTTGGACAGAGGTGCTAATGCAAGCTTTGAGAAGGATAAGCAAAGTATTTTG ATAACTGCATGTTCTGCTCATGGCTCAGAGGAACAGATCTTGAAGTGTGAGAACTACTACTTTCAAGA AATGCTGATCCAAATGTTGCTTGTAGGAGACTTATGACCCCAATCATGTATGCTGCTCGAGATGGTCAC ACCCAGGTTGTTGCTCTCCTTGTGCTCATGGAGCAGAAGTTAATACCCAGGATGAGAATGGTTACACT GCTTTAACGTGGGCGAGCACGTGAGGTGCTAAAAATATAGTTTGAAGTTGCTTGAACCTGGAGCTAAT AAAATGCTACAAACCAAGATGGAAGATGCCAAGTGAGATTGCAAAAAGAAACAAACATCATGAGATC TTCAACTTACTTTCTTTTACTTTAAATCCATTGGAAGGAAACTTCAACAGCTAACTAAAGAAGACACT ATTTGTAATAATTGACAACAGATTCTGATAGAAAAAGATCACATTTTATGTTTCATATACAGCATTT GGAGATCTGGAAGTATTTTACATGGTCTTGGACTTGAACATATGACAGATTTACTAAAGGAAAGGGAT ATAACGTTAAGACATCTTTGACCATGAGGGAAGATGAATTTACAAGAATGGAATTACCAAGTAAAGAC CAGCAGAAAATTCTGGCTGCTCTTAAAGAACTACAGGTAGAAGAGATACAATTTGGAGAGCTATCTGAA GAGACAAAGTTGGAATCAGTGGTGATGAGTTCCTCAACTTTCTTCTCAAATTAATAAACAGTGTGGC CATTTAATAACAGCTGTACAGAAATGTTATTACTGAGTTACCTGTAAATTCTCAAAGATAACACTGGAA TGGGCTTCTCCCAAGATTTTACTTCAGTTTGTGAAGAATTGGTTAATAATGTTGAAGATTTGAGTGAA AAGGTCTGCAAACTAAAAGACCTAATTCAAAGTTGCAAAATGAACGGGAAAAATGATCCAACATCATATA CAATTAAGGGAAGAAGTATCTACATGGAATAGTAGAATTTTGAAGAGGACAGCTATTACCATATGCGGA TTCGGTTTTCTTTTCAATTGCAAGCTAACTTTCCAGAGGAAATAA ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGCGCCGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_130768
Insert Size:	1428 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).
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).

Reconstitution Method:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_130768.2</u>
RefSeq Size:	1865 bp
RefSeq ORF:	1428 bp
Locus ID:	136991
UniProt ID:	<u>Q8WWH4</u>
Cytogenetics:	7q31.2
MW:	53.5 kDa
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).