

## Product datasheet for **SC338115**

### BAZ2A (NM\_001300905) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BAZ2A (NM_001300905) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAZ2A
Synonyms:	TIP5; WALp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001300905, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCAAACGACCATTTTAACCTTTACTGGCCTTCCCCTGCACCTGCTGCCTCAGGACTGAAACCT
CTCCTTCTCAGGGGAGGGCCTCTACACTAACGGGTCTCCATGAACTTCCCCAGCAAGGGAAAAGTTT
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TTCTCAGAGGGTGATGGCCGCCGACGCCGGTACTGTTGAGGGGCCGAGAAAGCCAGCAGCAGGGCCTC
GGTACTCGGAAGAAGGGCTCTCCCCTCCAAGCGGCGGCGACTCTCTATGCGGAACCACCACAGTGATCT
CACATTTTGCAGATTATCCTGATGGAGATGGAGTCCCATGATGCAGCCTGGCCTTTCCTAGAGCCTGTG
AACCCACGTTTGGTGAGTGGGTACCGGCGCATCATCAAAATCCTATGGATTTTCCACCATGCGGGAGC
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CGCTGGGAGGAGTTTTATCAGGGAAAACAGGCCAATCTGTGA
    
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001300905
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<u><a href="#">NM_001300905.1</a></u> , <u><a href="#">NP_001287834.1</a></u>
<b>RefSeq Size:</b>	8943 bp
<b>RefSeq ORF:</b>	5712 bp
<b>Locus ID:</b>	11176
<b>Cytogenetics:</b>	12q13.3
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

Essential component of the NoRC (nucleolar remodeling complex) complex, a complex that mediates silencing of a fraction of rDNA by recruiting histone-modifying enzymes and DNA methyltransferases, leading to heterochromatin formation and transcriptional silencing. In the complex, it plays a central role by being recruited to rDNA and by targeting chromatin modifying enzymes such as HDAC1, leading to repress RNA polymerase I transcription. Recruited to rDNA via its interaction with TTF1 and its ability to recognize and bind histone H4 acetylated on 'Lys-16' (H4K16ac), leading to deacetylation of H4K5ac, H4K8ac, H4K12ac but not H4K16ac. Specifically binds pRNAs, 150-250 nucleotide RNAs that are complementary in sequence to the rDNA promoter; pRNA-binding is required for heterochromatin formation and rDNA silencing (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) represents use of an alternate promoter, differs in the 5' UTR, and uses a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.