

Product datasheet for **SC303426**

S100G (NM_004057) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	S100G (NM_004057) Human Untagged Clone
Tag:	Tag Free
Symbol:	S100G
Synonyms:	CABP; CABP1; CABP9K; CALB3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_004057 edited TTGGGCAACCAGACACCAGAATGAGTACTAAAAAGTCTCCTGAGGAACTGAAGAGGATTT TTGAAAAATATGCAGCCAAAGAAGGTGATCCAGACCAGTTGTCAAAGGATGAACTGAAGC TATTGATTCAGGCTGAATTCCCCAGTTTACTCAAAGGTCCAAACACCCTAGATGATCTCT TTCAAGAAGTGGACAAGAATGGAGATGGAGAAGTTAGTTTTGAAGAATTCCAAGTATTAG TAAAAAAGATATCCCAGTGAAGAAGAAAACAAAATAGAACCCTGAGCACTGGAGGAAGAG CGCCTGTGC
Restriction Sites:	Please inquire
ACCN:	NM_004057
Insert Size:	300 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_004057.1.
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).



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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.

RefSeq: [NM_004057.1](#), [NP_004048.1](#)

RefSeq Size: 456 bp

RefSeq ORF: 240 bp

Locus ID: 795

UniProt ID: [P29377](#)

Cytogenetics: Xp22.2

Gene Summary: This gene encodes calbindin D9K, a vitamin D-dependent calcium-binding protein. This cytosolic protein belongs to a family of calcium-binding proteins that includes calmodulin, parvalbumin, troponin C, and S100 protein. In the intestine, the protein is vitamin D-dependent and its expression correlates with calcium transport activity. The protein may increase Ca²⁺ absorption by buffering Ca²⁺ in the cytoplasm and increase ATP-dependent Ca²⁺ transport in duodenal basolateral membrane vesicles. [provided by RefSeq, Jul 2008]