

## Product datasheet for PH300757

### SOX2 (NM\_003106) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SOX2 MS Standard C13 and N15-labeled recombinant protein (NP_003097)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200757
Predicted MW:	34.3 kDa
Protein Sequence:	>RC200757 protein sequence Red=Cloning site Green=Tags(s)  MYNMMETELKPPGPQQTSGGGGNSTAAAAGGNQKNSPDRVKRPMNAFMVWSRGQRRKMAQENPKMHNSE ISKRLGAEWKLSETEKRPFIDEAKRLRALHMKEHPDYKYPRRKTKTLMKKDKYTLPGGLLAPGGNSMA SGVGVGAGLGAGVNQRMSYAHMNGWSNGSYSMMQDQLGYPQHPGLNAHGAAQMOPMHRDYVSALQYNSM TSSQTYMNGSPTYSMSYSQQGTPGMALGSMGSVVKSEASSPPVVTSSSHSRAPCQAGDLRDMISMYLPG AEVPEPAAPSRLHMSQHYQSGPVPGTAINGTLP LSHM  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_003097</a></u>
RefSeq Size:	2520
RefSeq ORF:	951
Synonyms:	ANOP3; MCOPS3
Locus ID:	6657



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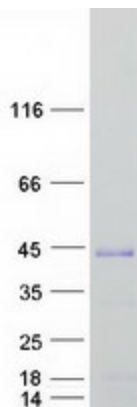
UniProt ID: [P48431](#), [A0A0U3FYV6](#)

Cytogenetics: 3q26.33

**Summary:** This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT). [provided by RefSeq, Jul 2008]

**Protein Families:** Adult stem cells, Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

### Product images:



Coomassie blue staining of purified SOX2 protein (Cat# [TP300757]). The protein was produced from HEK293T cells transfected with SOX2 cDNA clone (Cat# [RC200757]) using MegaTran 2.0 (Cat# [TT210002]).