

## 32-4856: Recombinant Human SIX Homeobox 6

**Alternative Name :** Homeobox protein SIX6, Homeodomain protein OPTX2, Optic homeobox 2, Sine oculis homeobox homolog 6, SIX6, OPTX2, SIX9, OPTX2, MCOPCT2.

### Description

Source : Escherichia Coli. SIX6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 269 amino acids (1-246 a.a) and having a molecular mass of 30.1kDa. SIX6 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. SIX Homeobox 6 (SIX6) is a member of the SIX/Sine oculis homeobox family contains 1 homeobox DNA-binding domain. The SIX6 protein is essential in embryonic development by providing necessary instructions for the formation of the forebrain and eye development. SIX6 is expressed in the developing and adult retina, hypothalamic and the pituitary regions. SIX6 gene defects are the cause of microphthalmia isolated with cataract type 2.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** SIX6 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol, 5mM DTT and 2mM EDTA.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGS MFQLPIL NFPQQVAGV CETLEESGDV ERLGRFLWSL  
PVAPAAACEAL NKNESVLRAR AIVAFHGGNY RELYHILENH KFTKESHAKL QALWLEAHYQ EAEKLRGRPL  
GPVDKYRVRK KFPLPRTIWD GEQKTHCFKE RTRNLLREWY LQDPYPNPSK KRELAQATGL TPTQVGNWFK  
NRRQRDRAAA AKNRLQQQVL SQGSGRALRA EGDGTPEVLG VATSPAASLS SKAATSAISI TSSDSECDI.

