Recombinant Chicken Pituitary homeobox 2 (PITX2)

Product Code	CSB-EP018043CH
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O93385
Product Type	Recombinant Protein
Immunogen Species	Gallus gallus (Chicken)
Purity	>85% (SDS-PAGE)
Sequence	MSCMKDPLSL ERLGAGNNKL CSSSPSSSSS SSSCHHQQPA LAMATALAPG QARSSLEAAK HRLEVHTISD TSSPEAAEKE KSQQGKSEDA GPEDPSKKKR QRRQRTHFTS QQLQELEATF QRNRYPDMST REEIAVWTNL TEARVRVWFK NRRAKWRKRE RNQQAELCKN GFGPQFNGLM QPYDDMYPGY SYNNWAAKGL TSASLSTKSF PFFNSMNVNP LSSQSMFSPP NSISSMSMSS SMVPSAVTGV PGSGLNSLNN LNNLSNPSLN SAVPTPACPY APPTPPYVYR DTCNSSLASL RLKAKQHSSF GYASVQNPAS NLSACQYPVD RPV
Source	E.coli
Target Names	PITX2
Protein Names	Recommended name: Pituitary homeobox 2 Alternative name(s): Homeobox protein PITX2 Short name= cPITX2 Paired-like homeodomain transcription factor 2
Expression Region	1-333
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this gene are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development. Alternatively spliced transcript variants encoding distinct isoforms have been described.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a

	concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.