

Recombinant Human ORC4 Protein (1-436 aa), His-SUMO-tagged

Cat. No. ORC4-703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ORC4 Protein (1-436 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Transcription. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-436 aa
Description	Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific DNA sequences that define origins of replication have not been identified yet. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication. Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	66.4 kDa
AA Sequence	MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFQVQVQYKHLSELLKRTALH GESNSVLIIGPRGSGKTM LINHALKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQ LNLENVVGDKVFGSFAENLSFLLKALKKGDRTSSCPVIFILDEFDLFAHHKNQTLTYN LFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRFSHRQIHLMNSFGFPQYVKIFKEQLS

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LPAEFPDKVFAEKWNENVQYLSEDRSVQEVLQKHFNISKNLRLHMLLMLALNRVTA
 SHPFMTAVDLMEASQLCSMDSKANIVHGLSVLEICLIAMKHLNDIYEEEPFNFQMVY
 NEFQKFVQRKAHSVYNFEKPVVMKA FEHLQQLELIKPMERTSGNSQREYQLMKLLL
 DNTQIMNALQKYPNCPTDVRQWATSSLSWL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [ORC4 origin recognition complex, subunit 4 \[Homo sapiens \]](#)

Official Symbol [ORC4](#)

Synonyms ORC4; HsORC4; Orc4p; ORC4L; ORC4P; FLJ46668;

Gene ID [5000](#)

mRNA Refseq [NM_001190879](#)

Protein Refseq [NP_001177808](#)

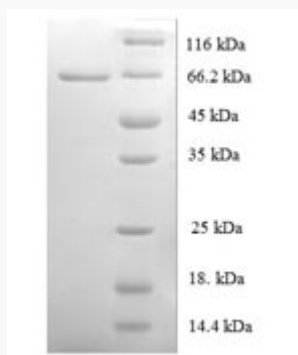
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MIM 603056

UniProt ID O43929



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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