

Recombinant Human ORC6, His-tagged

Cat. No. ORC6-2351H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ORC6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	275aa
Description	Origin recognition complex subunit 6, also known as ORC6, belongs to the origin recognition complex (ORC). ORC is a highly conserved heterohexameric protein complex that associates with DNA at or near sites of initiation of DNA replication. All six ORC subunits are essential for initiation of DNA replication, and ORC may be involved in regulation of gene expression in response to stress. ORC6 is also expressed constantly throughout the cell cycle. ORC2, ORC3, ORC4 and ORC5 form a core complex upon which ORC6 and ORC1 assemble.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT
Molecular Mass	30.5 kDa
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGSELIG RLAPRLGLAE PDMLRKAEEY LRLSRVKCVG LSARTTETSS AVMCLDLAAS WMKCPLDRAYLIKLSGLNKE TYQSCLKSFE CLLGLNSNIG IRDLAVQFSC IEAVNMASKI LKSYESSLPQ

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TQQVDLDLSR PLFTSAALLS ACKILKLKVD KNKMOVATSGV KKAIFDRLCK
 QLEKIGQQVD REPGDVATPP RKRKKIVVEA PAKEMEKVEE MPHKPQKDED
 LTQDYEEWKR KILENAASAQKATAE

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml

GENE INFORMATION

Gene Name [ORC6 origin recognition complex, subunit 6 \[Homo sapiens \]](#)

Official Symbol ORC6

Synonyms ORC6; origin recognition complex, subunit 6; ORC6L, origin recognition complex, subunit 6 homolog like (yeast) , origin recognition complex, subunit 6 like (yeast); origin recognition complex subunit 6; ORC6L;

Gene ID [23594](#)

mRNA Refseq [NM_014321](#)

Protein Refseq [NP_055136](#)

MIM [607213](#)

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UniProt ID	Q9Y5N6
Chromosome Location	16q12
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of the ORC complex at the origin of replication, organism-specific biosystem; Assembly of the pre-replicative complex, organism-specific biosystem; CDC6 association with the ORC:origin complex, organism-specific biosystem; CDT1 association with the CDC6:ORC:origin complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem;
Function	DNA binding;

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