

Recombinant Human ORC4

Cat. No. ORC4-30514TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human ORC4L with N terminal proprietary tag; Predicted MWt 53.39 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	248 amino acids
Description	The origin recognition complex (ORC) is a highly conserved six subunit protein complex essential for the initiation of the DNA replication in eukaryotic cells. Studies in yeast demonstrated that ORC binds specifically to origins of replication and serves as a platform for the assembly of additional initiation factors such as Cdc6 and Mcm proteins. This gene encodes a subunit of the ORC complex. Several alternatively spliced transcript variants, some of which encode the same protein, have been reported for this gene.
Molecular Weight	53.390kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFQV QVQYKHLSELLKRTALH GESNSVLIIGPRGSGKTM LISHA LKELMEIEEVSENVLQVHLNGLLQINDKIALKEITR QLNL ENVVGDKVFGSFAENLSFLLEALKKGDRTSSCPVIFILDE FDLFAHHKNQTLL YNLFDISQSAQTPIAVIGLTCRLDILE LLEKRVKSRFSHRQIHLMNSFGFPQYVKIFKE QLSLPAEF PDKVFAEK
Sequence Similarities	Belongs to the ORC4 family.
GENE INFORMATION	
Gene Name	ORC4 origin recognition complex, subunit 4 [Homo sapiens]
Official Symbol	ORC4
Synonyms	ORC4; origin recognition complex, subunit 4; ORC4L, origin recognition complex, subunit 4 (yeast homolog) like , origin recognition complex, subunit 4 homolog (S. cerevisiae) , origin recognition complex, subunit 4 like (S. cerevisiae) , origin recogn
Gene ID	5000
mRNA Refseq	NM_001190879
Protein Refseq	NP_001177808
MIM	603056
Uniprot ID	O43929

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Chromosome Location	2q22-q23
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; Association of licensing factors with the pre-replicative complex, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA replication origin binding; nucleoside-triphosphatase activity; nucleotide binding;