

Recombinant *Oryzias latipes* Tol2 integrase, His-tagged

Cat. No. Tol2 transposase-12O **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Tol2 integrase (transposase) protein with His-tag, expressed in <i>E. coli</i> .
Species	<i>Oryzias latipes</i> (Japanese medaka)
Source	<i>E. coli</i>
ProteinLength	Full length (74 kDa calculated)
Description	Tol2 is a DNA-based transposon system derived from the Japanese medaka fish (<i>Oryzias latipes</i>). The Tol2 transposase is the enzyme responsible for catalyzing the transposition of the Tol2 element. This recombinant protein is expressed in <i>E. coli</i> with an N-terminal His-tag for purification.
Form	Liquid
Molecular Mass	74 kDa
AASequence	MHHHHHHHEEVCDSSAAASSTVQNQPQDQEHWPYLRFFSLSGVNKDSFKMKCV LCLPLNKEISAFKSSPSNLRKHIERMHPNYLKNYSKLTAKRKRIGTSTHASSSKQLKV DSVFPVKHVSPVTVNKAILRYIIQGLHPFSTVDLPSEKELISTLQPGISVITRPTLRSKIA EAALIMKQKVTAAMSEVEWIATTTDCWTARRKSFIGVTAHWINPGSLERHSAALACK RLMGSHTFEVLASAMNDIHSEYEIRDKVVCTTTDSGSNFMKAFRVFGVENNDIETEA RRCESDDTDSEGCGEGSDGVEFQDASRVLDQDDGFEFQLPKHQKCACHLLNLVSS VDAQKALSNEHYKKLYRSVFGKQCQALWNKSSRSALAAEAVESERLQLLRPNQTR WNSTFMAVDRIQLICKEAGEGALRNICTSLVPMFNPAMELFLTEWANTMRPVAKVL

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DILQAETNTQLGWLLPSVHQLSLKLQRLHHSRLRYCDPLVDALQQGIQTRFKHMFEDP
EIIAAAILLPKFRTSWTNDETIIKRGMDYIRVHLEPLDHHKELANSSSDDEDDFFASLKPT
THEASKELDGYLACVSDTRESLLTFPAICSLSIKTNTPLPASAACERLFSTAGLLFSPK
RARLDTNNTFENQLLLKLNLRFYNFE

Endotoxin < 1 EU/μg (LAL method)

Purity >90% (by SDS-PAGE)

Notes Tol2 transposase is a recombinant protein. Store at -20 to -80°C. Aliquot to avoid freeze-thaw cycles.

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Concentration 0.35 mg/ml

Storage Buffer 10 mM HEPES, 300 mM KCl, pH 6.9

GENE INFORMATION

Gene Name Tol2 (transposase)

Official Symbol Tol2

Synonyms Tol2 integrase, Tol2 transposase, Tol2 TPase

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