

Recombinant Human DYRK3 Protein, GST-tagged

Cat. No. DYRK3-2990H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DYRK3 full-length ORF (AAH15501, 1 a.a. - 568 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene product belongs to the DYRK family of dual-specificity protein kinases that catalyze autophosphorylation on serine/threonine and tyrosine residues. The members of this family share structural similarity, however, differ in their substrate specificity, suggesting their involvement in different cellular functions. The encoded protein has been shown to autophosphorylate on tyrosine residue and catalyze phosphorylation of histones H3 and H2B in vitro. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Molecular Mass	88.22 kDa
AA Sequence	MKWKEKLG DGVYDTFMMIDETKCPPCSNVL CNPSEPPPPRRLNMTTEQFTGDHTQ HFLDGGEMKVEQLFQEFGNRKSNTIQSDGISDSEKCSPTVSQ GKSSDCLNTVKSNS SSKAPKV VPLTPEQALKQYKHHLTAYEKLEIINYPEIYFVGPNAKKRHGVIGPNNGG YDDADGAYIHVPRDHLAYRYEVLKIIGKGSFGQVARVYDHKLRQYVALKMVRNEKRF HRQAAEEIRILEHLKKQDKTGSMNVIIHMLESTFRNHVCM AFELLSIDL YELIKKNKFQ GFSVQLVHKFAQSILQSLDALHKNKIIHCDLKPENILLKHHGRSSTKVIDFGSSCFEYQ

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KLYTYIQSRFYRAPEIILGSRYSTPIDIWSFGCILAELLTGQPLFPGEDEGDQLACMME
 LLGMPPPKLLEQSKRAKYFINSKGIPRYCSVTTQADGRVVLVGGRSRRGKKRGGPPG
 SKDWGTALKGCDDYLFIEFLKRCLHWDPSARLTPAQALRHPWISKSVPRLTTIDKV
 SGKRVVNPASAFQGLGSKLPPVVGIANLKLKANLMSETNGSIPLCSVLPKLIS

Applications

- Kinase Assay
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [DYRK3 dual-specificity tyrosine-\(Y\)-phosphorylation regulated kinase 3 \[Homo sapiens \]](#)

Official Symbol [DYRK3](#)

Synonyms DYRK3; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 3; dual specificity tyrosine-phosphorylation-regulated kinase 3; dual specificity tyrosine (Y) phosphorylation regulated kinase 5; hYAK3 2; protein kinase Dyrk3; RED; REDK; regulatory erythroid kinase; dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 5; DYRK5; hYAK3-2;

Gene ID [8444](#)

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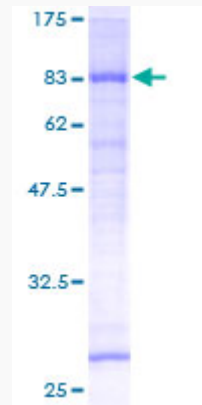
mRNA Refseq [NM_001004023](#)

Protein Refseq [NP_001004023](#)

MIM [603497](#)

UniProt ID [O43781](#)

**Quality Control
Testing**



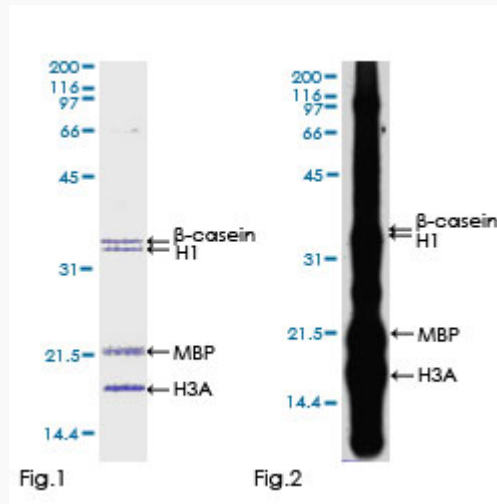
12.5% SDS-PAGE Stained with Coomassie Blue.

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Kinase Assay



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