

# Recombinant Full Length Human TYR Protein, C-Flag-tagged

Cat. No. TYR-1016HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human TYR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	The enzyme encoded by this gene catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The enzyme has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this gene result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation. The human genome contains a pseudogene similar to the 3' half of this gene.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	58.3 kDa
<b>AA Sequence</b>	<p>MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGS            CQNILLSNAPLGPQFP FTGVDDRESWPSVFYNRTCQCSGNFMGFNCGNCKFGFW            GPNCTERRLLVRRNIFDLSAPEKDKFFAYLTL AKHTISSDYVIPIGTYGQMKNGSTPM            FNDINIYDLFVWMHYVVSMDALLGGSEIWRDIDFAHEAPAFLPW HRLFLLRWEQEIQ            KLTGDENFTIPYWDWRDAEKCDICTDEYMGGQHPTNPPLLSPASFFSSWQIVCSRL            E EYNHQSLCNGTPEGPLRRNPGNHDKSRTPLRPSSADVEFCLSLTQYESGSMKD            AANFSFRNTLEGFASP LTGIADASQSSMHNALHIYMNGTMSQVQGSANDPIFLLHH</p>

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AFVDSIFEQWLRRHRPLQEYYPEANAPIGH NRESYMVPPFIPLYRNGDFFISSKDLGY  
 DYSYLQDSDPDSFQDYIKSYLEQASRIWSWLLGAAMVGAVLTA  
 LLAGLVSLLCRHKRKQLPEEKQPLLMEKEDYHSLYQSHLTRTRPLEQKLISEEDLAA  
 NDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Transmembrane
<b>Protein Pathways</b>	Melanogenesis, Metabolic pathways, Riboflavin metabolism, Tyrosine metabolism
<b>Full Length</b>	Full L.

## GENE INFORMATION

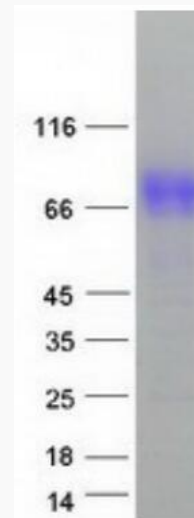
<b>Gene Name</b>	TYR tyrosinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	TYR
<b>Synonyms</b>	ATN; CMM8; OCA1; OCA1A; OCAIA; SHEP3

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Gene ID	7299
mRNA Refseq	NM_000372.5
Protein Refseq	NP_000363.1
MIM	606933
UniProt ID	P14679



Coomassie blue staining of purified TYR protein.

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