

Product datasheet for TP760938

OriGene Technologies, Inc.

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Oct4 (POU5F1) (NM_203289) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human POU class 5 homeobox 1 (POU5F1/OCT4), transcript

variant 2, full length, with N-terminal HIS tag, expressed in E. coli, 50ug

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

A DNA sequence encoding human full-length POU5F1/OCT4

Tag: N-His

Predicted MW: 21.1 kDa

Concentration: >0.05 μg/μL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 976034

 Locus ID:
 5460

 UniProt ID:
 M1S623

 RefSeq Size:
 1155

 Cytogenetics:
 6p21.33

RefSeq ORF: 795

Synonyms: Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF4





Summary:

This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewing's sarcoma gene on chromosome 21, which also leads to tumor formation. Alternative splicing, as well as usage of alternative AUG and non-AUG translation initiation codons, results in multiple isoforms. One of the AUG start codons is polymorphic in human populations. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. [provided by RefSeq, Oct 2013]

Protein Families:

Adult stem cells, Cancer stem cells, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors

Product images:

