

Product datasheet for **SC203486**

Oct4 (POU5F1) (NM_002701) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Oct4 (POU5F1) (NM_002701) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	POU5F1
Synonyms:	Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF3; OTF4
ACCN:	NM_002701
Insert Size:	294 bp
Insert Sequence:	>SC203486 3'UTR clone of NM_002701 The sequence shown below is from the reference sequence of NM_002701. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC ACTCTGGGCTCTCCCATGCATTCAAAC TG AGGTGCCTGCCCTTAGGAATGGGGACAGGGGAGGGG AGGAGCTAGGGAAGAAAACCTGGAGTTTGTGCCAGGGTTTTGGGATTAAGTTCTTCACTCAAGG AAGGAATTGGGAACACAAAGGGTGGGGCAGGGAGTTTGGGCAACTGGTTGGAGGAAGTGAAGTT CAATGATGCTCTTGATTTAATCCACATCATGTACTTTTTCTTAATAAAGAAGCCTGGGACAC AGTAGATAGACACTTA ACGCGT AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG Restriction Sites: Sgfl-Mlul OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs). Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials. RefSeq: <u>NM_002701.6</u>



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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]

Locus ID: 5460

MW: 10.9