

## Product datasheet for **SC330102**

### TCF4 (NM\_001243232) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCF4 (NM_001243232) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCF4
Synonyms:	bHLHb19; CDG2T; E2-2; FECD3; ITF-2; ITF2; PTHS; SEF-2; SEF2; SEF2-1; SEF2-1A; SEF2-1B; SEF2-1D; TCF-4
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330102 representing NM_001243232. Blue=Insert sequence Red=Cloning site Green=Tag(s)

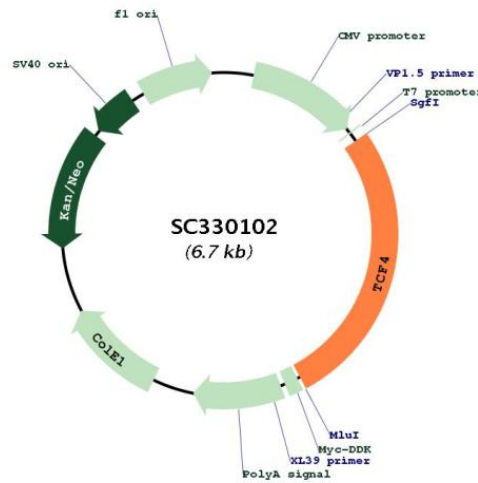
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CAGATGTAA
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001243232

Insert Size: 1803 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_001243232.1](#)

RefSeq Size: 7788 bp

RefSeq ORF: 1803 bp

Locus ID: 6925

UniProt ID: [P15884](#)

Cytogenetics: 18q21.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

MW: 64.6 kDa

**Gene Summary:** This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (8) differs in the 5' UTR and coding sequence and uses an alternate in-frame splice site at the 5' end of an exon compared to variant 3. The resulting isoform (h) has a shorter and distinct N-terminus and contains an alternate internal segment compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. Sequence Note: This gene is distinct from TCF7L2 (alias TCF-4).