

Product datasheet for **RC227647L4V**

TCF3 / E2A (TCF3) (NM_001136139) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | TCF3 / E2A (TCF3) (NM_001136139) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | TCF3 / E2A |
| Synonyms: | AGM8; bHLHb21; E2A; E47; ITF1; p75; TCF-3; VDIR |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001136139 |
| ORF Size: | 1953 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC227647). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_001136139.1 |
| RefSeq ORF: | 1956 bp |
| Locus ID: | 6929 |
| UniProt ID: | P15923 |
| Cytogenetics: | 19p13.3 |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors |
| MW: | 67.1 kDa |



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Gene Summary:

This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Sep 2011]