Seattle Genova
Tel: +1 (425) 247-3088 Fax: +1 (425) 650-9990
Email: info@seattle-genova.com Web: www.seattle-genova.com
Address: 18110 SE 34TH ST STE 455, Vancouver, WA 98683

TCF-3/E2A Circular RNA

Catalog Number:STEM-ORNA-0058

DESCRIPTION	
Product Name	TCF-3/E2A Circular RNA
Gene Name	TCF-3/E2A
Source	In vitro transcribed mRNA was further circularized to make this product as a circular RNA.
Alternative names	TCF3 Transcription Factor BHLHb21 ITF1 E2A Immunoglobulin Transcription Factor Transcription Factor E2-Alpha Kappa-E2-Binding Factor VDIR E47 P75 Class B Basic Helix-Loop-Helix Protein 21 Transcription Factor ITF-1 VDR Interacting Repressor MGC129647 MGC129648 TCF-3 Transcription Factor 3 (E2A Immunoglobulin Enhancer Binding Factors E12/E47) Negative Vitamin D Response Element-Binding Protein E2A Immunoglobulin Enhancer-Binding Factor E12/E47 Immunoglobulin Enhancer-Binding Factor E12/E47 Vitamin D Receptor-Interacting Repressor E2A-HLF Fusion Transcript Protein Helix-Loop-Helix Protein HE47 NOL1-TCF3 Fusion BHLHB21 AGM8A AGM8B AGM8 HGNC: 11633 NCBI Entrez Gene: 6929 Ensembl: ENSG00000071564 OMIM®: 147141 UniProtKB/Swiss-Prot: P15923
SPECIFICATIONS	
Cap	
5'-UTR	
ORF	=A55
3'-UTR	
Poly(A) Tail	
Modifications	
Neutral Lipid	1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
Cholesterol	Cholesterol
Lonizable Lipid	1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000-DMG)
PEG-lipid	Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy)−8-oxooctyl)amino)octanoate)(SM-102)
Storage	-80 °C
Buffer	PBS, pH7.59
Cryoprotectant	Trehalose
BACKGROUND	
Gene Accession	
Gene Alias	

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Background	TCF3 (Transcription Factor 3) is a Protein Coding gene. Diseases associated with TCF3 include Agammaglobulinemia 8B, Autosomal Recessive and Agammaglobulinemia 8A, Autosomal Dominant. Among its related pathways are Gene expression (Transcription) and ERK Signaling. Gene Ontology (GO) annotations related to this gene include DNA-binding transcription factor activity and sequence-specific DNA binding. An important paralog of this gene is TCF12. Transcriptional regulator involved in the initiation of neuronal differentiation and mesenchymal to epithelial transition (By similarity). Heterodimers between TCF3 and tissue-specific basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate during embryogenesis, like muscle or early B-cell differentiation (By similarity). Together with TCF15, required for the mesenchymal to epithelial transition (By similarity). Dimers bind DNA on E-box motifs: 5'-CANNTG-3' (By similarity). Binds to the kappa-E2 site in the kappa immunoglobulin gene enhancer (PubMed:2493990). Binds to IEB1 and IEB2, which are short DNA sequences in the insulin gene transcription control region (By similarity). (TFE2_HUMAN,P15923)