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Product datasheet for SC110071

GTF2IRD1 (NM_005685) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2IRD1 (NM_005685) Human Untagged Clone
Tag:	Tag Free
Symbol:	GTF2IRD1
Synonyms:	BEN; CREAM1; GTF3; hMusTRD1alpha1; MUSTRD1; RBAP2; WBS; WBSCR11; WBSCR12
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC110071 sequence for NM_005685 edited (data generated by NextGen Sequencing)

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CTGGACATCATTCAGGTCACCGTCCCAGACCCCTCGCCAACCTCTGAGGAAATGACAGAC
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CTCGTGCAATGGCCAATGTACATGGTGGACTATGCCGGCCTGAACGTGCAGCTCCCGGGA
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Clone variation with respect to NM_005685.3
801 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005685 unedited
GGTACANNATTTATGTATACGACTTACTTATAGGGCGGNCGCAGAATCGGNACGAGGCGG
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005685 unedited
CAATCTAGTGTCGAGTTTTTTTTTTTTTTTTTTACTTATTTAAAAAGGCCTTGGTGGCAG
GAATATAGTGTAAAAATCATTGGAAAAACTAAAAGGCATCGATACATATCCGAATATACA
TTTTGTACATAAATTACATTTCCTTTAGTCTTTCTGAGTGAGGTCCTGATTCAGTACTGA
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CATTGGCCATTGCACGAGTGAGATCTGGTTGGCCGATGCCACTGAATCCGGGTTAGAGGA
CGAGGAAGAGGAAGACGAGGAGGAAGAGGAGACGGAATTTCCTTCCGAGACCCGCTTTCT
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TACGAAGCCGGGTTACTCTTGATTCCCTTGTAGGGACCTGTACAGTTCCTTGTTGCCAAG
CTTCCCGTATCTCTATGAAAGCCCCTGACTGCCCCTTATGGGTGGGAAGCGATCCGAGAA
CCCCGGCATATTTTTGAAACCGGCTTTTAGTCTTGCACAG

Restriction Sites: NotI-NotI

ACCN: NM_005685

Insert Size: 3000 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_005685.2, NP_005676.2

RefSeq Size: 3078 bp

RefSeq ORF: 2835 bp

Locus ID: 9569

UniProt ID: Q9UHL9

Cytogenetics: 7q11.23

Domains: GTF2I

Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Basal transcription factors
Gene Summary:	The protein encoded by this gene contains five GTF2I-like repeats and each repeat possesses a potential helix-loop-helix (HLH) motif. It may have the ability to interact with other HLH-proteins and function as a transcription factor or as a positive transcriptional regulator under the control of Retinoblastoma protein. This gene plays a role in craniofacial and cognitive development and mutations have been associated with Williams-Beuren syndrome, a multisystem developmental disorder caused by deletion of multiple genes at 7q11.23. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010] Transcript Variant: This variant (2) uses an alternate splice site in the coding region, compared to variant 3. The encoded isoform (2) is shorter compared to isoform 3.