

Product datasheet for **RG202128**

GTF2IRD1 (NM_016328) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2IRD1 (NM_016328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTF2IRD1
Synonyms:	BEN; CREAM1; GTF3; hMusTRD1alpha1; MUSTRD1; RBAP2; WBS; WBSCR11; WBSCR12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202128 representing NM_016328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTGTGGTAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCCTGGAACCTCCGCGT
 TCACCCGCAAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCGCTGTCCAA
 ACTGAACGCCGAGGTGGCCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAGGGG
 AGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCTCAGTTCTGCCGAGGGCCCCCGTGGA
 AGGATCCGGAGGCAGAGCACCCCAAGAAGTGCAGCGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTC
 CTCCTGGAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTGATGTTCTTTAT
 AGCGAGGCCCTGGGAAGGGCCAGTGTGGTCCACTGCCCTATGAGAGGCTGCTCAGGAGCCAGGGCTGC
 TGGCCGTGCAGGGGTGCCCGAGGGCTGGCCTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCAT
 GGCCATCTTGAACACAGCCACCGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGAC
 TCGAAGGCCCTGGTGGAGCTGAACGGTGTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCCTGCATG
 GCCAGGCCCCCAAGGTGCCACCCAGGACCTGCCCCCAACCGCCACCTCCTCCTCATGGCCAGTTCCT
 GTACAGCACGGCGCTCCCAACCCAGCCATCCGAGAGCTCAAGCAGGAAGCACCTTCTGCCCCCTTGCC
 CCCAGCGACCTGGGCTGAGTCGGCCATGCCAGAGCCCAAGGCCACCGGTGCCCAAGACTTCTCCGACT
 GTTGTGGACAGAAGCCACTGGGCTGGTGGGCTCTCATCCAGAACGTCCATGCCTCCAAGCGCATTCT
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 CTCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCTGGACCACATGGTCC
 CCGTGCCTACCGGAAGATTGCTGTGACCCGGAGGCTGTGGAGATCTGGGCATCCCGGACAAGATCCC
 CTTCAAGCGCCCTGCACTTACGGAGTCCCAAGCTGAAGCGGATCCTGGAGGAGCCCATAGTATCCAC
 TTCATCATTAAAGAGGATGTTGATGAGCGAATTTTACAGGGAACAAGTTTACCAAGACACCACGAAGC
 TGGAGCCAGCCAGCCGCGCAGAGGACACCTCTGCAGAGTCTCTAGGGCCACCGTCTTGACCTTGTGG
 GAATGCTCGGTACAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGG
 CTGAGGCCGATCAAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCAGACCCCTCGCCAA
 CCTCTGAGGAAATGACAGACTCGATGCCTGGGCACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGAT
 GCTGACAGACAAAGTCTGAGTGAAGACCGCGGCCGAGGAGAGGCCCTGGAGGACAGCCACGGTGAC
 GTGATCCGGCCCTGCGGAAGCAGGTGGAGCTGCTTTCAACACAGGATACGCCAAGGCCATTGGCATCT
 CGGAGCCCGTCAAGGTGCCGTACTCCAAGTTTCTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCC
 TGAAGGCATCTCCCTCCGCAGGCCAACTGCTTCGGGATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGC
 AACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACTGAGGGAGTCAAAGAGCCCATCGTGGATA
 GTCAAGGAACTGCCTCCTCACTTGGCTTCTCCCCCTGCCCTGCCCCAGAGAGGGATTCCGGGGACCC
 TCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTCAAGAAAATTATGACGCGAGGCTCTCACGGATCGAC
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 GACAAGATCAAGTTCACAGTCACCAGGCCTTTCAAGGACTCATCCCAAGCCTGATGAAGATGACGCCA
 ACAGACTCGGGGAGAAGGTGATCCTGCGGAGCAGGTGAAGGAACTTTCAACGAGAAATACGGTGAAGC
 CCTGGGCTGAACCGGCCGGTGTGGTCCCTTATAAACTAATCCGGGACAGCCAGACGCGTGGAGGTC
 ACGGGTCTGCCTGATGACATCCCCTTCCGGAACCCCAACAGTACGACATCCACCGGCTGGAGAAGATCC
 TGAAGGCCGAGAGCATGTCGCATGGTATCATTAAACAGCTCCAACCTTTGCAGAAATCTGCAATGA
 TGCCAAGGTGCCAGCCAAAGACAGCAGCATTCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATCC
 GTCTCCTTCTCCT
 TCTCACTCGTCAATGGCCAATGTACATGGTGGACTATGCCGGCCTGACGTGCAGCTCCGGGACCTCT
 TAATTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202128 representing NM_016328
 Red=Cloning site Green=Tags(s)

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLVSALDSMCSALSKLNAEVACVAVHDESAFVVGTEKG
 RMFLNARKELQSDFLRFCRGGPPWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLY
 SEALGRASVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPLEDGGDR
 SKALVELNGVSLIPKGSRDCGLHGQAPKVPQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLA
 PSDLGLSRMPPEPKATGAQDFSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDAFIKETEDINT
 LRECVQILFNSRYAEALGLDHMVVVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH
 FIIKRMFDERIFTGNKFTKDTTKLEPASPPEDTSAEVSRAVLDLAGNARSDKGSMSSEDCGPGTSGELGG
 LRPIKIEPEDLDIIQVTVPDPSPTSEEMTDSMPGHLPESDSGYGMEMLTDKGLSEDARPEERPVEDSHGD
 VIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEELFVVGLEPISLRPNCFGI AKLRKILEAS
 NSIQFVIKRPELLTEGVKEIVDSQGTASSLGFSPPALPPERDSGDPLVDESLKRQGFQENYDARLSRID
 IANTLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVIIIEGLPPGIPFRKPCFTFGSQNLERILAVA
 DKIKFTVTRPFQGLIPKPEDDANRLGEKIVLREQVKELFNEKYGEALGLNRPVLPYKLI RDSPDAVEV
 TGLPDDIPFRNPNTYDIHRLEKILKAREHYRMVIINQLQPF AEICNDAKVP AKDSSIPKRRKRKRVSEGNS
 VSSSSSSSSSSSNPDSVASANQISLVQWPMYVDYAGLNVQLPGPLNY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

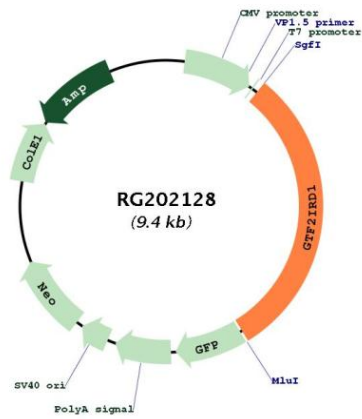


ACCN: NM_016328

ORF Size: 2877 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_016328.1, NP_057412.1</p>
RefSeq Size:	<p>3446 bp</p>
RefSeq ORF:	<p>2880 bp</p>
Locus ID:	<p>9569</p>
UniProt ID:	<p>Q9UHL9</p>
Cytogenetics:	<p>7q11.23</p>
Domains:	<p>GTF2I</p>
Protein Families:	<p>Druggable Genome, Transcription Factors</p>
Protein Pathways:	<p>Basal transcription factors</p>
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG202128