

Product datasheet for **RG222579**

ID1 (NM_181353) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ID1 (NM_181353) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ID1
Synonyms: bHLHb24; ID
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222579 representing NM_181353
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGTCGCCAGTGGCAGCACCCGCCACCGCCGCGGGCCCCAGCTGCGCGCTGAAGCCGGCAAGA
CAGCGAGCGGTGCGGGCAGGTGGTGGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGG
GGGCGCCGGGGCGCGCTGCCTGCCCTGCTGGACGAGCAGCAGGTAACGTGCTGCTCTACGACATGAAC
GGCTGTTACTCACGCCTCAAGGAGCTGGTGCCACCCTGCCCCAGAACC GAAGGTGAGCAAGGTGGAGA
TTCTCCAGCAGTCATCGACTACATCAGGGACCTTCAGTTGGAGCTGAAC TCGGAATCCGAAGTTGGAAC
CCCCGGGGGCGAGGGCTGCCGGTCCGGGCTCCGCTCAGCACCC TCAACGGCGAGATCAGCGCCCTGACG
GCCGAGGTGAGATCCAGATCCGACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222579 representing NM_181353
Red=Cloning site Green=Tags(s)

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISR CAGGAGARLPALLDEQQVNVLLYDMN
GCYSRLKELVPTLPQNRKYSKVEILQHVIDYIRDLQLELNSESEVGT PGGRGLPVRAPLSTLNGEISALT
AEVRSRSDH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

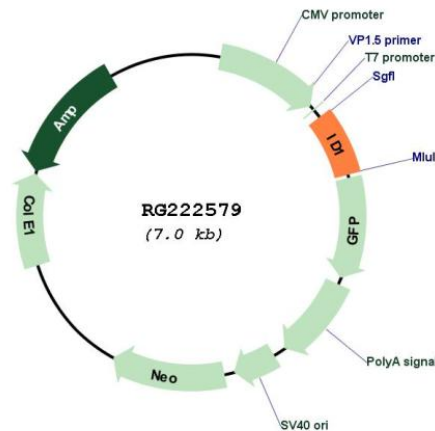


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Cloning Scheme:



Plasmid Map:



ACCN: NM_181353

ORF Size: 447 bp

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.

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:	<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:	NM_181353.3
RefSeq Size:	1234 bp
RefSeq ORF:	450 bp
Locus ID:	3397
UniProt ID:	P41134
Cytogenetics:	20q11.21
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	TGF-beta signaling pathway
Gene Summary:	The protein encoded by this gene is a helix-loop-helix (HLH) protein that can form heterodimers with members of the basic HLH family of transcription factors. The encoded protein has no DNA binding activity and therefore can inhibit the DNA binding and transcriptional activation ability of basic HLH proteins with which it interacts. This protein may play a role in cell growth, senescence, and differentiation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]