

Product datasheet for RG228177

IYD (NM_001164695) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: IYD

Synonyms: C6orf71; DEHAL1; IYD-1; TDH4

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228177 representing NM_001164695

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TTATCCTGAAGGAGCTGGCATTGATTTCCTTCCTGAATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

EU: info-de@origene.com CN: techsupport@origene.cn **Protein Sequence:** >RG228177 representing NM_001164695

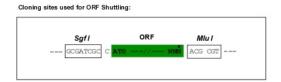
Red=Cloning site Green=Tags(s)

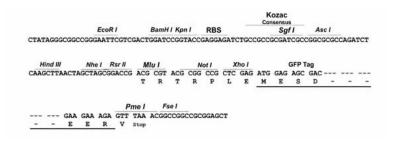
MYFLTPILVAILCILVVWIFKNADRSMEKKKGEPRTRAEARPWVDEDLKDSSDLHQAEEDADEWQESEEN VEHIPFSHNHYPEKEMVKRSQEFYELLNKRRSVRFISNEQVPMEVIDNVIRTAGTAPSGAHTEPWTFVVV KDPDVKHKIRKIIEEEEEINYMKRMGHRWVTDLKKLRTNWIKEYLDTAPILILIFKQVHGFAANGKKKVH YYNEISVSIACGILLAALQVFGKIILKELALISFLNL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





ACCN: NM_001164695

ORF Size: 741 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).

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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um

filter is required.

RefSeq: <u>NM_001164695.2</u>

RefSeq Size: 7480 bp

RefSeq ORF: 744 bp

Locus ID: 389434

UniProt ID: Q6PHW0

Cytogenetics: 6q25.1

Protein Families: Transmembrane

Gene Summary: This gene encodes an enzyme that catalyzes the oxidative NADPH-dependent deiodination of

mono- and diiodotyrosine, which are the halogenated byproducts of thyroid hormone

referred to as deiodinase deficiency, or iodotyrosine dehalogenase deficiency, or thyroid

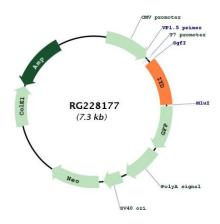
production. The N-terminus of the protein functions as a membrane anchor. Mutations in this gene cause congenital hypothyroidism due to dyshormonogenesis type 4, which is also

hormonogenesis type 4. Alternative splicing results in multiple transcript variants. [provided by

RefSeq, Sep 2009]



Product images:



Circular map for RG228177