

## Product datasheet for **RG204494**

### **IGLL1 (NM\_020070) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** IGLL1 (NM\_020070) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** IGLL1  
**Synonyms:** 14.1; AGM2; CD179b; IGL1; IGL5; IGLJ14.1; IGLL; IGO; IGVPB; VPREB2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204494 representing NM\_020070  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCCAGGGACAGGCCAGGGGGCCTTGAGGCCCTGGTGAGCCAGGCCCAACCTCAGGCAGCGCT  
GGCCCCTGCTGCTGCTGGGTCTGGCCGTGGTAACCCATGGCCTGCTGCGCCCAACAGCTGCATCGCAGAG  
CAGGGCCCTGGGCCCTGGAGCCCTGGAGGAAGCAGCCGGTCCAGCCTGAGGAGCCGGTGGGGCAGGTTCC  
CTGCTCCAGCGCGGCTCCTGGACTGGCCCCAGGTGCTGGCCCCGGGGTTTCAATCCAAGCATAACTCAG  
TGACGCATGTGTTTGGCAGCGGGACCCAGCTCACCGTTTTAAGTCAGCCCAAGGCCACCCCTCGGTCAC  
TCTGTTCCCGCCGCTCCTCTGAGGAGCTCCAAGCCAACAAGGCTACACTGGTGTGTCTCATGAATGACTTT  
TATCCGGGAATCTTGACGGTGACCTGGAAGGCAGATGGTACCCCATCACCCAGGGCGTGGAGATGACCA  
CGCCCTCCAACAGAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCCGAGCAGTGGAG  
GTCCCAGAGAAGCTACAGCTGCCAGGTCATGCACGAAGGGAGCACCGTGGAGAAGACGGTGGCCCCCTGCA  
GAATGTTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204494 representing NM\_020070  
Red=Cloning site Green=Tags(s)

MRPGTGQGGLEAPGEPGNLRQRWPLLLLGLAVVTHGLLRPTAASQSRALGPGAPGGSSRSSLRSRWGRF  
 LLQRGSWTGPRCWPRGFQSKHNSVTHVFGSGTQLTVLSQPKATPSVTLFPPSSEELQANKATLVCLMNDF  
 YPGILTVTWKADGTPITQGVEMTPSKQSNKYAASSYLSLTPEQWRRRSYSQVMHEGSTVEKTVAPA  
 ECS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020070

**ORF Size:** 639 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:**

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\\_020070.4](#)

**RefSeq Size:** 901 bp

**RefSeq ORF:** 642 bp

**Locus ID:** 3543

**UniProt ID:** [P15814](#)

**Cytogenetics:** 22q11.23

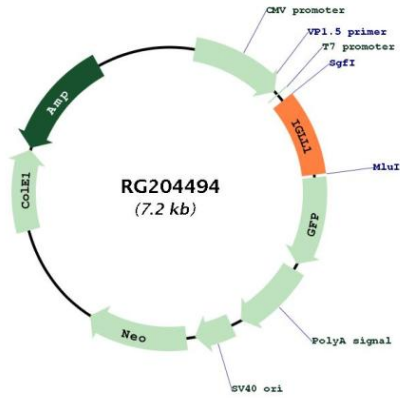
**Domains:** ig, IGc1

**Protein Families:** Secreted Protein

**Protein Pathways:** Primary immunodeficiency

**Gene Summary:** The preB cell receptor is found on the surface of proB and preB cells, where it is involved in transduction of signals for cellular proliferation, differentiation from the proB cell to the preB cell stage, allelic exclusion at the Ig heavy chain gene locus, and promotion of Ig light chain gene rearrangements. The preB cell receptor is composed of a membrane-bound Ig mu heavy chain in association with a heterodimeric surrogate light chain. This gene encodes one of the surrogate light chain subunits and is a member of the immunoglobulin gene superfamily. This gene does not undergo rearrangement. Mutations in this gene can result in B cell deficiency and agammaglobulinemia, an autosomal recessive disease in which few or no gamma globulins or antibodies are made. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204494