

## Product datasheet for **RN205582**

### **Fyb1 (NM\_001109176) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fyb1 (NM_001109176) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fyb1
Synonyms:	Fyb; RGD1563421
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN205582 representing NM\_001109176  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGAAGTTCAACACCGGGAGTAACCCGACAGAGGAGTCTCCACCAGCAGCAGGCCCTTCAAAGTTG  
 CAGGACAAAACCTCCCCTTCTGGAATACAATCAAAAAAGAATTTATTTGACAACCAAGGAAATGCCAGCCC  
 ACCCGCAGGACCCAGCAACATGTCTAAATTTGGGACCACAAAACCACCCTTGGCAGCGAAACCTACCTAT  
 GAGGAGAAGTCTGAGAAAAGACCTAAACCTCCGTTTTTAAAACCGACTGGAGTGAGCCCAAGTTTGAA  
 CACAGCCAAAACCTCGTTTCTAGGGATCTGAGGTCAAAGTGGGGTTTCTGAAACCTGTAAGCCCCAAACC  
 CACCAGCTTGACCAAAGAAGATTCCAAACCTGTGATTTTACGGCCTCTGGGAATAAGCTTCACAATTTG  
 AACCAAGAGTCTGACTTAAAGACGCTAGGACCGAAGCCAGGGTCTACTCCCCAGTCCCAGAAAATGATC  
 TGAAGCCAGGGTTCTCAAAGATAGCTGGAGCTAAGAGCAAGTTTATGCCAGCACCAGCAAGATGCTGACTC  
 CAAACCCCGATTTCCAGACACACCTACGGCCAAAAGCCATCCCTAAGTACAGAGGACGCCCAAGAGAG  
 GAAAGCATCCCTAAGAATACGCCTGTCCAGAAGGGATCCCCAGTGCAGCTCGGAGCCAAGTCCAGGGGCA  
 GCCCTTCAAACCAGCTAAGGAAGACCCAGAAGATAAAGACCATGGAACACCAAGTTCGCCCTTTGCTGG  
 AGTGGTTCTGAAACCTGCTGCGAGCAGAGGGAGCCCGGGCTCTCAAAAACCTCTGAAGAGAAAAAGAA  
 GAGAGAAAAACAGATATCCAAAGAACATCTTTCTGAACAACTGAATCAGGAAGAGCCGGCCAGATTCC  
 CTAAGGCCCTTCCAAGTGCAGCGGGGACACCATGGGGCCAAAGTCAAGGAGAAGGAAGGAGACAAGGA  
 TTCAGCAACCCGAAGCAGAAGCCCTGCCTCCCTGTCCGTCTTGGGCCGCTCCATCCAAGCCAGC  
 AGACCACCCACGTTGACCTGACCAGATTCCGAAAAGCTGACTCTGCAACAGTTCCAACAAAAGCCAGA  
 CACCTTACTCGACAACCTCCCTGCCACCACCTCCGCCTACACAGCCAGCCAGCCAGCCGCTGCCGCC  
 GTCTCACCCAGCACATCTGCCAGCCCCAGCCTGCCCCAGAAAACATTAAGCCTCCCCTTGACCTGAAA  
 CATCTATAAATGAAGAAAAATCAAGATGGTGTGATGCATTCTGATGGTACTGGAATCTAGAAGGGAAC  
 AAGAGAGTGATGGAGAAATGTATGAAGACATAGAGTCAATCCAAGGAACGAGACAAGAAACGGGAAAAAGA  
 AGAAAAGAAGAGATTAGAGCTAGAACGAAAGGAGCAGAAGGAGAGAGAGAAGAAAAGAGCAAGAAGTGAAG  
 AAGAAATCAAGCTTACTGGCCCATCAAGTCAATCATGCAAAAAGCCTGCTGTGATGTCAAAGGAG  
 GAAAGAACGAAGTGAAGTCAAGCAAGGAGAGGACATTGAAATAATCCGCATCACAGACAATCCAGAAGG  
 GAAATGGCTGGGCAAGTCAAGGGGATCATATGGTTATATTAACGACTGCCGTCAAGATTGACTAT  
 GATTCCCTGAAACGGAAGAAGAATACCATCAATGCTGTCCACCGAGACCTGTTGAAGAGGACCAAGATG  
 TCTATGATGATGTGGCTGAGCAGGATGCTCCTAACAGCCACAGTCAAGTGAAGTGGAGGGATGTTCCC  
 ACCACCGCCAGCAGACGACGACATCTATGATGGGATAGAAGAGGAAGATGCTGATGACGGATCCGTGCCG  
 CAGTTGATGAGAAGACTAACCGGTGGTCTGGGGATTTTGAAGATGTTAAAGGGAAAAGATGAAAGAA  
 AGAAAAGCATTGAGAGAAAACCTAAAGTCTCTGAGTCAGACAGTAATGAAGGTTTCACTTTCCCTTCTCC  
 TCATAAACAAGTGGATGTGGGAGAAGAAGTTTACGATGATGTGGATGCCTCAGACTTCCCCCTCCACCT  
 GCAGAAATGAGTCAAGGTATGAGTGTGGAAAGACAAAAGCTGAAGAGAAAGATCCTAAGAAGCTAAAAA  
 AGCAGGAAAAGGAAGAAAAGACCTCAGGAAAAATCAAGTACGACGGTGAATTCGAGTTCTATATTC  
 AACTAAAGTTGCATCCTCCTTAACTTCTAAAAAGTGGGAAACGAGAGATCTGCAGATAAAACCTGGGGAG  
 TCTCTTGAAGTTATAAAAAGCACAGACGACACCAAAAGTTCTCTGCAGGAATGAAGAGGGCAAAATGAGTT  
 ACGTCCTTCGGAGTTACCTGGTGGACAATGATGGAGAAATCTACGACGACATCGCTGATGGTTGCATCTA  
 TGACAACGACTAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001109176  
**Insert Size:** 2463 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001109176.1</a></u> , <u><a href="#">NP_001102646.1</a></u>
<b>RefSeq Size:</b>	2707 bp
<b>RefSeq ORF:</b>	2463 bp
<b>Locus ID:</b>	499537
<b>Cytogenetics:</b>	2q16
<b>Gene Summary:</b>	Acts as an adapter protein of the FYN and LCP2 signaling cascades in T-cells (By similarity). May play a role in linking T-cell signaling to remodeling of the actin cytoskeleton (By similarity). Modulates the expression of IL2 (By similarity). Involved in platelet activation (By similarity). Prevents the degradation of SKAP1 and SKAP2 (By similarity). May be involved in high affinity immunoglobulin epsilon receptor signaling in mast cells (PubMed:12681493). [UniProtKB/Swiss-Prot Function]