

Phylogenetic tree of the xlp gene family. The tree is rooted on the left and branches out to the right. Bootstrap values are shown at the nodes. The sequences are color-coded: blue for xlp48-200ct, xlp28-340cg, xlp27-743ct, xlp27-912ag, xlpdefc, xlpgluck-394ct, and xlpdefd; red for xlpdefd; and black for the others. The sequences are listed on the right, with their corresponding bootstrap values on the left.

Bootstrap Value	Sequence
0.0	xlp48-200ct
7.8	xpps0111a
12.2	xlphbb-120ca
13.2	xlphbb xlpinva
27.0	xlp28-340cg
57.7	xlpssrh10g02
63.4	xlpssrh07g05
64.2	xlp1lb
65.1	xlp26-298gt
68.4	xlp27-743ct
71.4	xlp27-912ag
71.4	xlpssrk02c09.1 xlpssrk14c12
72.2	xlpssrk05a11.2
72.8	xpps0289b xlpssrh01h01
74.7	xpps0195b
77.5	xpps0273a
79.4	xlpssrk11g10
82.1	xlpdefc
83.8	xlppih
85.5	xpps0169a
89.5	xpps0074a
94.2	xlpssrk03b03.1
99.1	xlpmads3.1
102.3	xpps0036b
106.7	xlpsaltb
108.9	xlpdefd
113.9	xlpgluck-394ct
115.3	xlpdefd
121.4	xpps0397a
144.3	xlpesi3b
152.1	xlpesi3a

Phylogenetic tree of the xlp gene family. The tree is rooted at the bottom and branches upwards. Bootstrap values are shown at the nodes. The sequences are color-coded: black for most, red for xlpcat-353gt, and blue for xlpqr47-625gt. The tree shows several distinct clusters of sequences, with xlpcat-353gt and xlpqr47-625gt forming their own clusters within the larger xlp gene family.

Sequence	Approximate Position (bp)
xlpssrk01c04	0.0
xpps0098a	8.8
xpps0020b	14.2
xpps0210a	14.2
xlpssrh08h05.1	17.2
xlpomt2	19.5
xlpssrk05h01	21.5
xlphbd	21.5
xlpsspsf	21.5
xlpcwinv-136tg	24.7
xlpinva-304ga	25.5
xlpcwinv2	25.5
xlp^{palb}	26.6
xlpssrh02h05.1	28.3
xlp^{defa}	29.9
xlpssrk11g12	32.8
xlpssrh02h05	37.6
xlpssrk13h08	42.3
xlpssrh05g07	42.3
xpps0192a	43.0
xpps0374a	44.0
xpps0022b	46.0
xpps0310a	47.5
xpps0450b	48.3
xlpssrk09c10	51.8
xpps0241a	55.5
xlpffta.2	56.7
xlpssrk10b07	63.3
xpps0019a	65.7
xpps0187a	78.9
xlp^{cat}-353gt	86.5
xlpdfbrb	92.6
xpps0299a	100.4
xlpccra	108.1
xlp^{qr}47-625gt	137.7

Phylogenetic tree showing the relationships between various *xlp* genes. The tree is rooted at the bottom with *xlpccrb* (105.7) and branches upwards. The *xlpthc.2* clade is highlighted in blue, and the *xlpthc.1* clade is highlighted in red. The *xlpccba* genes are shown in black. The *xlpccba* genes are shown in black. The *xlpccba* genes are shown in black.

Gene	Value
<i>xlpccrb</i>	105.7
<i>xlpccba.2</i>	90.4
<i>xlpccba.1</i>	84.0
<i>xlpccba.3</i>	77.0
<i>xlpccba.4</i>	69.7
<i>xlpccba.5</i>	61.2
<i>xlpccba.6</i>	60.5
<i>xlpccba.7</i>	58.8
<i>xlpccba.8</i>	53.1
<i>xlpccba.9</i>	51.5
<i>xlpccba.10</i>	50.5
<i>xlpccba.11</i>	49.5
<i>xlpccba.12</i>	48.7
<i>xlpccba.13</i>	45.9
<i>xlpccba.14</i>	44.1
<i>xlpccba.15</i>	39.7
<i>xlpccba.16</i>	37.8
<i>xlpccba.17</i>	35.8
<i>xlpccba.18</i>	34.5
<i>xlpccba.19</i>	33.5
<i>xlpccba.20</i>	26.3
<i>xlpccba.21</i>	21.5
<i>xlpccba.22</i>	19.3
<i>xlpccba.23</i>	15.2
<i>xlpccba.24</i>	10.8
<i>xlpccba.25</i>	0.0
<i>xlpccba.26</i>	105.7
<i>xlpccba.27</i>	100.0
<i>xlpccba.28</i>	95.0
<i>xlpccba.29</i>	90.0
<i>xlpccba.30</i>	85.0
<i>xlpccba.31</i>	80.0
<i>xlpccba.32</i>	75.0
<i>xlpccba.33</i>	70.0
<i>xlpccba.34</i>	65.0
<i>xlpccba.35</i>	60.0
<i>xlpccba.36</i>	55.0
<i>xlpccba.37</i>	50.0
<i>xlpccba.38</i>	45.0
<i>xlpccba.39</i>	40.0
<i>xlpccba.40</i>	35.0
<i>xlpccba.41</i>	30.0
<i>xlpccba.42</i>	25.0
<i>xlpccba.43</i>	20.0
<i>xlpccba.44</i>	15.0
<i>xlpccba.45</i>	10.0
<i>xlpccba.46</i>	5.0
<i>xlpccba.47</i>	0.0