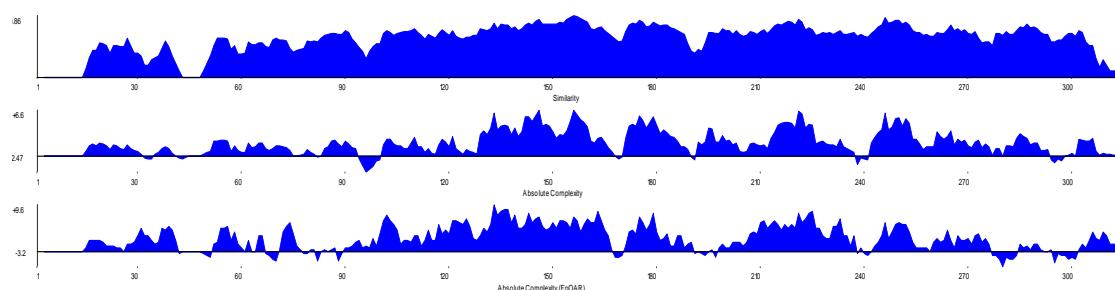


## Supplementary Material S1: Bioinformatics online tools used in this research.

Name	Function	URL
TMPRED	Prediction of transmembrane domain	<a href="http://www.ch.embnet.org/software/TMPREDform.html">http://www.ch.embnet.org/software/TMPREDform.html</a>
PSORT	Prediction of subcellular localization	<a href="https://www.genscript.com/psort.html">https://www.genscript.com/psort.html</a>
SignalIP	Prediction of signal peptides	<a href="http://www.cbs.dtu.dk/services/SignalIP">http://www.cbs.dtu.dk/services/SignalIP</a>
ProtScale	Analysis of amino acid affinity/ hydrophobicity	<a href="http://web.expasy.org/cgi-bin/protscale/protscale.pl">http://web.expasy.org/cgi-bin/protscale/protscale.pl</a>
NCBI Conserved Domains	Prediction of conservative domains	<a href="https://www.ncbi.nlm.nih.gov/cdd">https://www.ncbi.nlm.nih.gov/cdd</a>
SMART		<a href="http://smart.embl-heidelberg.de/">http://smart.embl-heidelberg.de/</a>
NPS@SOPMA	Analysis of protein secondary structure	<a href="https://npsa-prabi.ibcp.fr/cgi-bin/npsa_automat.pl?page=npsa_sopma.html">https://npsa-prabi.ibcp.fr/cgi-bin/npsa_automat.pl?page=npsa_sopma.html</a>
I-TASSER	Construction of protein tertiary structure model	<a href="https://zhanggroup.org/I-TASSER/">https://zhanggroup.org/I-TASSER/</a>

## Supplementary Material S2: Homology alignment and conserved domain information of *FpOAR*, *HbOT1*, *HbOT2* and *AtOT*

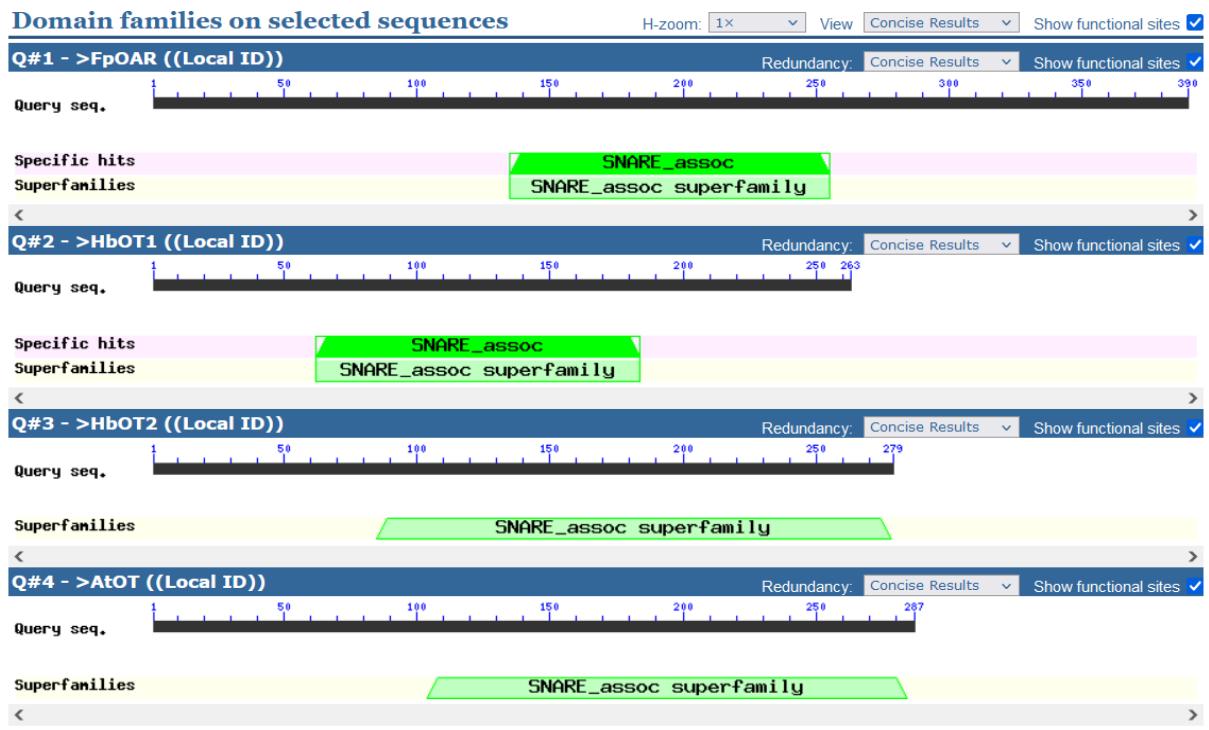
### 1. Homology alignment of *FpOAR*, *HbOT1*, *HbOT2* and *AtOT*.





FpOAR	MIDIHRSIQCINRSAYSAYSLATVHIMSESASSTISILSHADEPQCYCTIRIACPSNKRILLTATLKMATAEVSTIFIGCTIWIAIPITLEEDDRPDLRIKSFAIQCAINTIKYRDINPYRIVCVVITYFL	130
HbOT1	.....	57
HbOT2	.....	114
AtOT	.....	122
<b>Section 7:</b>		
FpOAR (376)	ESTPDRREWROEDLL	260
HbOT1 (264)	-----	187
AtOT (288)	-----	244
HbOT2 (280)	-----	252
Consensus (385)		
<b>SNARE_assoc Domain:</b>		
FpOAR	MISAAEFLH1ISKNEEMAAVVVGVMIFVGFLYEFKRELATIVLVEAAGASIAEQYRIDESEVILEQGEGKGRDAKILISLSDDEDDYDSDDEDIILEAGFAIVVKADEHMESTFDRREWQEDL	389
HbOT1	AVASTSGSCSRSVWSYLPILGIVVSSIIISLRKTKYSTDVIMASSPENHAGCNCVTESSFTLSGRTGDSLKKSQ.....	263
HbOT2	KSVKLILYLFITSLMELIGSIIIIFFPLIKRKRYYE.....	279
AtOT	RSVKLILYLFITSLVFLGSISITFPALIKRKRYYE.....	287

2. The SNARE-assoc conserve domain of FpOAR and homology blasted genes HbOT1, HbOT2 and AtOT



3. Similarity analysis of *FpOAR* with *HbOT1*, *HbOT2* and *AtOT* (A) and *SNARE* protein members from *FpOAR*, rubber trees and other plants.

