

Supplementary Figure legends

Suppl. Figure 1

OsRac1 ^1H - ^{15}N HSQC spectra.

Pairs of overlying OsRac1 spectra of OsRac1 are shown. Left, OsRac1 alone (red) and in the presence of the wild-type OsRbohB $^{138-313}$ (blue). Right, OsRac1 alone (red) and in the presence of the R273Q/Y277Q mutant of OsRbohB $^{138-313}$ (blue).

Suppl. Figure 2

The highly conserved N-terminal cytoplasmic regions of Rboh proteins.

Sequence alignment of Rboh proteins from *Oryza sativa* (OsRbohB, A, C, and D), *Arabidopsis thaliana* (AtRbohC, D, and F), *Solanum tuberosum* (StRbohA and B), *Nicotiana benthamiana* (NbRbohA and B), and *Nicotiana tabacum* (NtRbohD). Identical and homologous residues are shown on yellow and blue background, respectively. EF-hand motifs are indicated above the alignment.

Suppl. Figure 3

Model for the regulation of RbohB in rice innate immunity

The N-terminal cytoplasmic region takes part in an intramolecular interaction with the cytosolic C-terminal region that carries FAD- and NADPH-binding domains. The Rac1 immune complex is composed of several proteins. Rboh probably dimerizes through interaction of the cytoplasmic domains and is regulated by this dimerization and by Ca^{2+} .

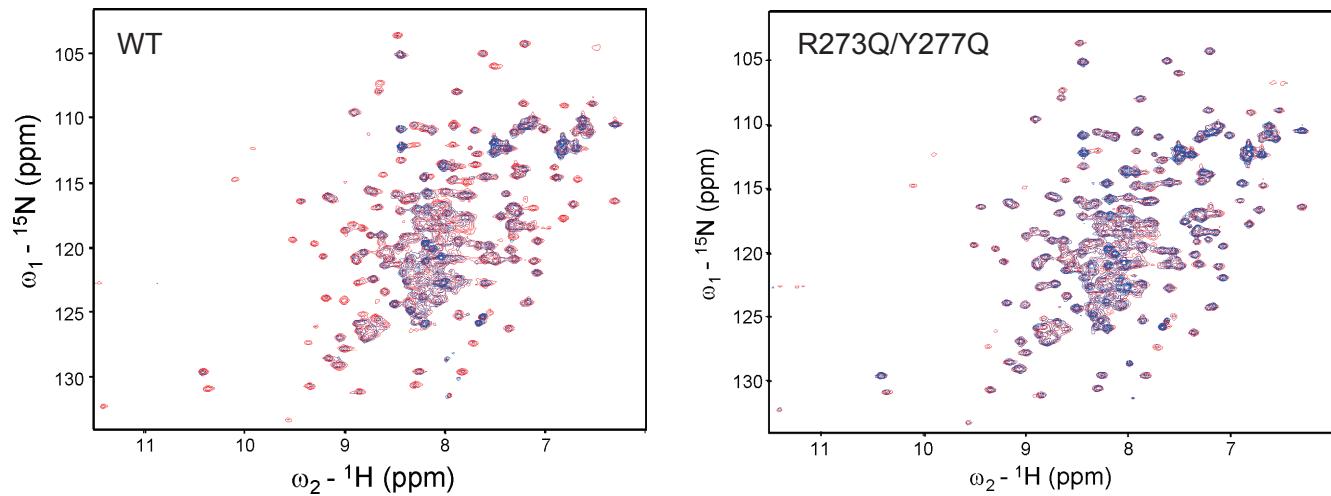
Supplementary Table 1

Structure validation by MolProbity

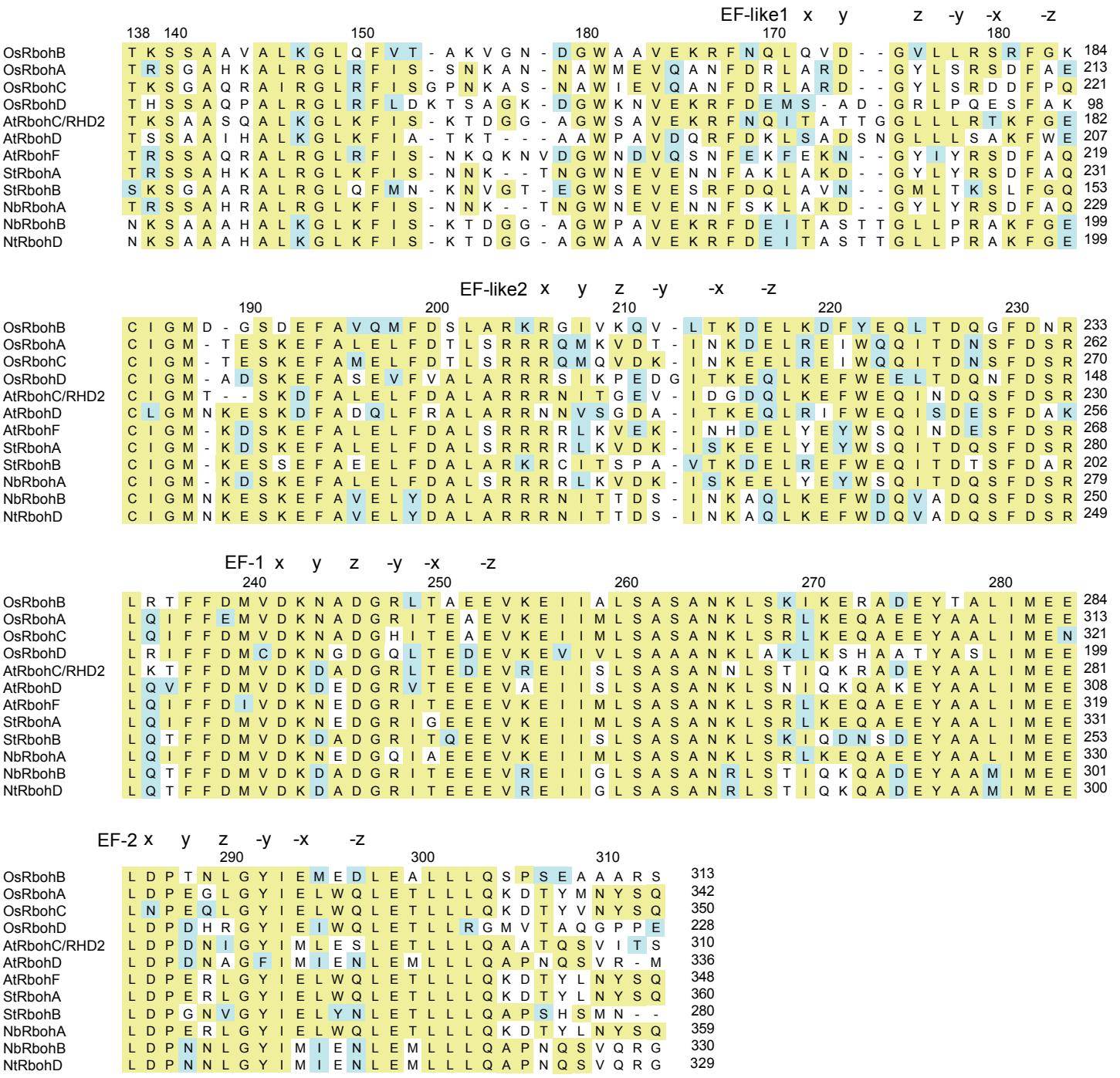
clash score, all atoms (percentile)*	20.3 (63 rd)
Rotamer outliers (%)	12.2
C β deviations > 0.25 Å	0
MolProbity score [^] (percentile)*	2.9 (35 th)
Residues with bad bonds (%)	0.0
Residues with bad angles (%)	0.0

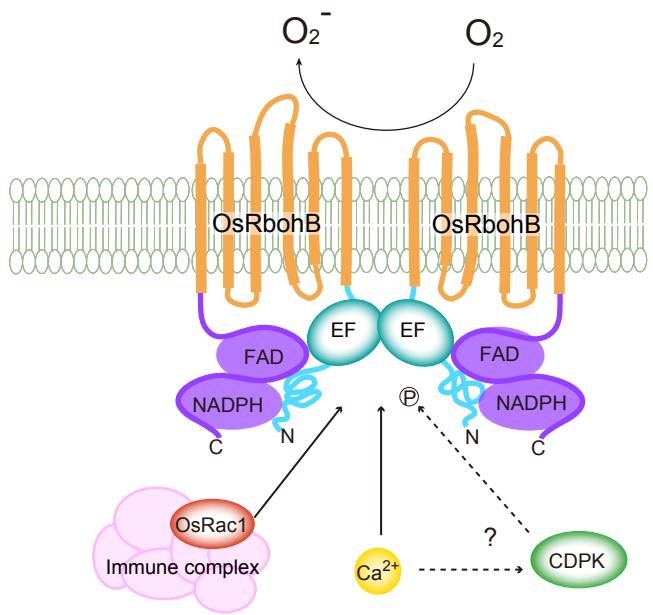
* 100th percentile is the best of comparable resolution; 0th percentile is the worst.

[^]MolProbity score is defined as the following: 0.42574*log(1+clashscore) + 0.32996*log(1+max(0,pctRotOut-1)) + 0.24979*log(1+max(0,100-pctRamaFavored-2)) + 0.5



Supplementary figure.1 (Oda *et al.*,)





Supplementary figure.3 (Oda *et al.*,)