

The intracellular immune receptor Rx1 regulates the DNA-binding activity of a Golden2-like transcription factor\*

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**Figure S1.** **A.** cDNA sequence for *NbGlk1*. **B.** *NbGlk1* open reading frame. The AREAEAA motif typical of GARP family transcription factors is indicated in red. The GCT-box typical of GLK-like transcription factors is shown in blue. **C.** *NbGlk1* *E. coli* optimized open reading frame.

### A.

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ATGCTAACTATATCACCTTTGAGCTACAAAACCACCAAAAATGACAGGGATAATCACATGGAAAGTTTCACGATGCGAGG
AGTTGATGATTTTCCAGAGTTTGGTGATGGGAATTTGCTCGAAAGCATTGATTTTGGATGACATTTTCTTGGGGATTAACG
TCGACGATGGTGTCTTACCAGATTTGGAGATGGACTCAGAGATTCTTGCTGAATTATCAGTTAGCAGTGGCGACGAATCT
GATCGTATGAATAGTTATAATACTACTACACCACCCTCCAAGTAGAAGAACGCAACTCTTCTACAAAAGAAGAAGTGGA
AAAAGTAGTATCACATTTGAATAAGAAGAGTGAAAAAACTAAACCTAAGTCAAAGGAGAAGTCCAAGAATCCAGAAGGGA
AGAGAAAAGTGAAGGTGGATTGGACGCCAGAGCTACATCGAAGATTTGTGCAAGCAGTAGAGCAATTAGGTGTAGATAAA
GCAGTCCCATCTAGGATTTTAGAACCTTATGGGTGTTGAAGGTCTCACTCGCCATAACATAGCTAGCCATCTTCAAAAATA
TAGAGCCCATCGAAACATTTGCTTGCAGAGAGAAGCGGAGGCGCAAGTTGGAGCCAAAGAAAACAAATGTACGGCAGTG
CAGCCGTGGTTGGAGGTGGCGGAAAGAGAGACATAAACCCATGGCCGTGAGCACCACCAACCATGGGTTTTCCGCCTATGACG
GCACCACCCATGGTGCCGCTCATTTTAGACCTCTACATGTCTGGGGTCAATCCGCCACCGATCAATCTATGATGCATAT
GTGGCCGAAACATATGATGCCCTCCCACCAGCATGGGCACCGATTGTTTCTCCTCATTCTTACCACCTTACAGATCATC
CTTCTTTTGGCATTACACCATCAAAGAGTACTAACTCTCTGCACCAGGCACCCCTTGCCTTCTTCCACCATGATAGCG
CCCCGAGATTTCCAGTTCAGGGCATCCACCCCTGCCATTGGTCAAAGCTGTTCCCAAGAACGACGACAAGATCTGCC
AAAACCTCCTTCTGATTTTTCATCCTTCAAAGGAGAGCATAAATGCGCCATTGGAAATGTTTTAGCAAAGCCATGGCTAC
CACCACCACCCCTCGGATTGAAACCTCCCTCATTCACAGTGTGTTGAATGAATTACAACGTCAAGGGATTAATAAAAATA
CCTCCA
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### B.

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MLTISPLSYKTTKNDRDNHMESFTMRGVDDFPEFGDGNLLESIDFDDIFLGINVDDGVLDPDLEMDSEILAEHSVSSGDES
DRMNSYNTTTPPLQVEERNSSTKEEVEKVVSHLNKKSEKTKPKSKEKSKNPEGKRKVKVDWTPELHRRFVQAVEQLGVDK
AVPSRILELMGVEGLTRHNIASHLQKYRAHRKHLAREAEAA SWSQRKQMYGSAAVVGGGKRDINPWPSAPTMGFPPMT
APPMVPPHFRPLHVWGHPPTDQSMHMWPKHMPLPPAWAPIVSPHSSPLTDHPSFWHSHHQRVLNSLAPGTPCFSPVA
PPRFVQGIPPPAMVKAAPTGARQDLPKPPSDFHP SKESIDAAIGDVLAKPCLPPPPLGLKPPSIDSVLNELQRQGINKI
PP
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### C.

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ATGCTGACGATCTCCCCGCTGAGCTACAAAACGACGAAAAACGACCGCGACAATCACATGGAATCATTTACGATGCGTGG
CGTGGACGATTTTCCGGAATTTGGCGACGGTAACCTGCTGGAATCCATTGATTTTGGATGACATTTTCTTGGGCATCAATG
TTGATGACGGTGTCTTCCGCGATCTGGAAATGGACAGCGAAATCCTGGCGAACTGAGCGTGAGCAGCGGCGATGAAAGT
GACCGTATGAACTCCTATAATACCACGACCCCGCCGCTGCAAGTGGAAAGAACGCAACAGTTCCACGAAAAGAAGAAGTTGA
AAAAGTGGTTTTACATCTGAACAAAAATCGGAAAAACCAAAACCGAAATCAAAGAAAAATCGAAAAACCCGGAAGGCA
AACGCAAAGTTAAAGTCGATTGGACGCCGGAACGACCCGTCGCTTTGTGAGGCAGTTGAACAACCTGGGTGTGGACAAA
GCTGTTCCGAGCCGATTTCTGGAACGATGGGCGTTGAAGGTCTGACCCGCCATAACATCGCGTCTCATCTGCAAAAATA
TCGTGCCATCGAAACACCTGCTGGCGCGTGAAGCGGAAGCCGCAAGCTGGTCTCAGCGCAAACAAATGTATGGCTCAG
CAGCTGTCTGGGCGGTGGCGGTAACCGGATATTAATCCGTGGCCGAGCGCCCCGACGATGGGCTTTCCGCCGATGACC
GCCCCGCCGATGGTTCCGCCGATTTTTCGCCGCTGCATGTCTGGGGTCAACCGCCGACCGATCAGAGTATGATGCACAT
GTGGCCGAAACACATGATGCCGCTGCCGCCGCGATGGGCTCCGATTGTGACCCGCACTCATCGCCGCTGACGGATCATC
CGAGCTTTTGGCACTCTCATCACCACAGTGTCTGAATAGTCTGGCACCAGGACCCCGTGGCTTCCGAGCCCGGTTGCT
CCGCCGCGTCTCCGAGTGCAGGGCATCCGCCGCCGCAATGGTCAAAGCTGTGCCAGCCGCGCGCTCAGGATCTGCC
GAAACCGCGTCTGACTTCCATCCGAGTAAAGAATCCATTGATGCCGCAATTTGGTGTGCTGCTGGCAAACCCGTCGCTGC
CGCCGCCGCGTGGTCTGAAACCGCGTCAATCGACTCCGTGCTGAACGAACTGCAACGCCAAGGCATCAATAAAAATT
CCGCCGTAA
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**Figure S2.** Oligonucleotide sequences and associated *E*- and *Z*-scores for PBM with *NbG1k1* DNA-binding domain.

See attached files.

**Figure S2a**

Oligonucleotide sequence and associated *E*-score (first experiment)

**Figure S2b**

Oligonucleotide sequence and associated *E*-score (second experiment)

**Figure S2c**

Oligonucleotide sequence and associated *Z*-score (first experiment)

**Figure S2d**

Oligonucleotide sequence and associated *Z*-score (second experiment)

**Supplementary Table 1.** The oligonucleotides used for this study.

<b>Primer Name</b>	<b>Orientation</b>	<b>Sequence</b>
<i>NbGlk1-1</i>	Sense	5'-GGC CAT ATG AAC TCC TAT AAT ACC ACG AC-3'
<i>NbGlk1-2</i>	Antisense	5'-GGC CTC GAG AGT TGG GGT ATT TTA TTA ATC CC-3'
<i>NbGlk1-3</i>	Sense	5'-GGC CAT ATG AAC TCC TAT AAT ACC ACG AC-3'
<i>NbGlk1-4</i>	Antisense	5'-GCC GGA TCC TTA CGG CGG GGC GGT CAT C-3'
<i>NbGlk1-5</i>	Sense	5'-GGC CAT ATG CTG ACG ATC TCC CC-3'
<i>NbGlk1-6</i>	Antisense	5'-GCC GGA TCC TTA CGG CGG GGC GGT CAT C-3'
<i>NbGlk1-7</i>	Sense	5'-CTA CAA GTC AGC GGC CGC ATA AGG TAC-3'
<i>NbGlk1-8</i>	Antisense	5'-CTT ATG CGG CCG CTG ACT TGT AGA GCT-3'
<i>NbGlk1-9</i>	Sense	5'-GGC CGC TAG CTA CCC TTA TGA TGT GCC AGA CTA TGC TGG AGG TTA TCC TTA CGA TGT ACC TGA TTA TGC TAC TAG TTA AT-3'
<i>NbGlk1-10</i>	Antisense	5'-CTA GAT TAA CTA GTA GCA TAA TCA GGT ACA TCG TAA GGA TAA CCT CCA GCA TAG TCT GGC ACA TCA TAA GGG TAG CTA GC-3'
<i>NbGlk1-11</i>	Sense	5'-GGC TCA TGA TCA CTA TAT CAC CTT TGA GC-3'
<i>NbGlk1-12</i>	Antisense	5'-GGC GCG GCC GCA GTT GGA GGT ATT TTA TTA ATC CC-3'
<i>NbGlk1-13</i>	Sense	5'-GGG GAC AAG TTT GTA CAA AAA AGC AGG CTA CAT GCT AAC TAT ATC ACC TTT G-3'
<i>NbGlk1-14</i>	Antisense	5'-GGG GAC CAC TTT GTA AAG AAA GCT GGG TCA TGG AGG TAT TTT ATT AAT C-3'
Rx1-9	Sense	5'-CTC GAG TTA GCC AAC CAT TAT ATT CTC GGG-3'
Rx1-10	Antisense	5'-GG CCA TAT GCA GAT CTT CGT TCA AGA C-3'
Rx1-1	Sense	5'-GGC CCA TGG CTT ATG CTG CTG TTA C-3'
Rx1-2	Antisense	5'-GGC GCG GCC GCA CCA ACC ATT ATA TTC TC-3'
Rx1-3	Sense	5'-GCC CAT ATG GCT TAT GCT GCT GTT AC-3'
Rx1-4	Antisense	5'-GCCCTCGAGTGCACATGAATTTTGATCACTC-3'
Rx1-5	Sense	5'-GGC CGC TAG CGA GCA AAA GCT CAT TAG TGA GGA AGA CTT AGG TGA ACA GAA GCT AAT CTC TGA AGA GGA TCT TAC TAG TTA AT-3'
Rx1-6	Antisense	5'-CTA GAT TAA CTA GTA AGA TCC TCT TCA GAG ATT AGC TTC TGT TCA CCT AAG TCT TCC TCA CTA ATG AGC TTT TGC TCG CTA GC-3'
Rx1-7	Sense	5'-TTT TTT GGA TCC ATG GCT TAT GCT GCT GTT ACT TCC C-3'
Rx1-8	Antisense	5'-GTG GTA CCT TAA GCG GCC GCA CCA ACC ATT ATA TTC TCG GGC TGC-3'
Rx1-9	Sense	5'-GGA TCC ATG GCT TAT GCT GCT GTT AC-3'
Rx1-10	Antisense	5'-CTC GAG TTA GCC AAC CAT TAT ATT CTC GGG-3'
FA-1	Sense	5'-CAC TGT GAC ACA CTG TGA CAC ACT GTG ACA CAC TGT GAC ACA CTG TGA CC-3'
FA-2	Antisense	5'-GGT CAC AGT GTG TCA CAG TGT GTC ACA GTG TGT CAC AGT GTG TCA CAG TG-3'
FA-3	Sense	5'-CAG ATT TCC ACA GAT TTC CAC AGA TTT CCA CAG ATT TCC ACA GAT TTC CC-3'
FA-4	Antisense	5'-GGG AAA TCT GTG GAA ATC TGT GGA AAT CTG TGG AAA TCT GTG GAA ATC TG-3'
FA-5	Sense	5'-CGG ATA TCC ACG GAT ATC CAC GGA TAT CCA CGG ATA TCC ACG GAT ATC CC-3'
FA-6	Antisense	5'-GGG ATA TCC GTG GAT ATC CGT GGA TAT CCG TGG ATA TCC GTG GAT ATC CG-3'