

## Supplementary Information

Primer	Sequence (5'-3')	Restriction sites	Amino acid coverage
Fw1	<b>GGGATCC</b> AAAAAAAT <u>G</u> TCACAAAAACAAAAACCAAT	<i>Bam</i> HI	1-524
Rv1	<u>GTTATCTAGATGGTACCTTCTCTTTGAGATAAGGTTGAG</u>	<i>Kpn</i> I, <i>Xba</i> I	
Fw2	<b>GGGTACCAAGTAGTTTCTTTACACTC</b>	<i>Kpn</i> I	522-868
Rv2	<b>GGATATCTACCATTGAAATATCTG</b>	<i>Eco</i> RV	
Fw3	<b>GGGATCC</b> AAAAAT <u>G</u> GATATCCAATACCAAGATTTAATTTAAG	<i>Bam</i> HI, <i>Eco</i> RV	867-1160
Rv3	<u>GTTATCTAGAACCTAGGATTTGACAATACTTGTA</u> AAAAG	<i>Avr</i> II, <i>Xba</i> I	
Fw4	<b>GCCTAGGTCAAATTTAAAAGAAATTTGC</b>	<i>Avr</i> II	1159-1411
Rv4	<b>GTGGTACCGCATT</b> TTTTACCCGCTGTATCTGAT	<i>Kpn</i> I	
Fw5	<b>GAGATCT</b> AAAAAT <u>G</u> GCGGTACCACCACATTGGAGAAT	<i>Bgl</i> II, <i>Kpn</i> I	1408-1615
Rv5	<u>GTTATCTAGAAAGTCGCGAGATTTAAAATACTCTTGATAC</u>	<i>Nru</i> I, <i>Xba</i> I	
Fw6	<b>GAGATCT</b> AAAAAT <u>G</u> GCTCGCGACTGGTATGAGAGATCCATT	<i>Bgl</i> II, <i>Nru</i> I	1613-2008
Rv6	<u>GTTATCTAGAACTCGAGGTCAAACCACCACCATTCTC</u>	<i>Xho</i> I, <i>Xba</i> I	
Fw7	<b>GAGATCT</b> AAAAAT <u>G</u> ACCTCGAGTAATTTCTTTGGTAATGGTTC	<i>Bgl</i> II, <i>Xho</i> I	2005-2334
Rv7	<u>GTTATCTAGAAAGTCGACGTTTGAGTACGACCTAAATAAG</u>	<i>Sal</i> I, <i>Xba</i> I	
Fw8	<b>GAGATCT</b> AAAAAT <u>G</u> ACGTCGACTTCACCATTGAATGAAGG	<i>Bgl</i> II, <i>Sal</i> I	2331-2631
Rv8A	<b>GTCTAGATTA</b> AGCATAAAAGTTGTGATTC	<i>Xba</i> I	
Rv8B	<b>GTCTAGA</b> AGCATAAAAGTTGTGATTCTCT	<i>Xba</i> I	

### SI Table I: Cloning of *gbc* cDNA in *Dictyostelium* expression vectors.

*gbc* cDNA was amplified with PCR from cDNA in eight parts of approximately equal size. Part 8 was amplified in two versions that differ in the presence of a Stop codon, to discriminate for expression of GbpC, and a GbpC-GFP fusion construct. Sequences in red represent restriction sites for direct cloning of separate parts in MB74-expression plasmids, sequences in bold represent restriction sites for fusion of parts, and Start/Stop codons are underlined.