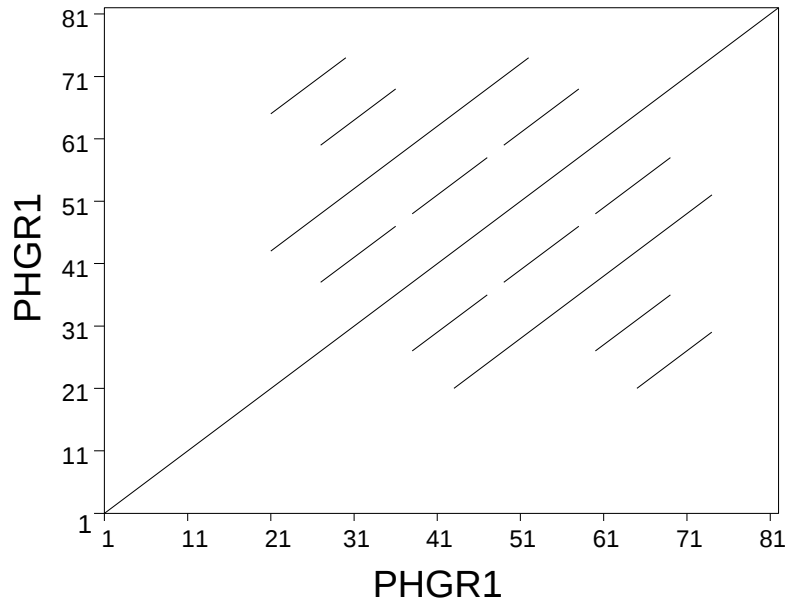


**A****B**

1            10            20            30            40  
 MDPGPKGHCHCGGHGHPGGH CGPPPGHGPGPCGPPPHHGPGP  
 .....

50            60            70            80  
CGPPPGHGPGPCGPPPHHGPGPCGPPPGHGPGHPPPGPHH  
 .....

**Additional file 1: PHGR1 peptide sequence analysis.**

A) Dotplot analysis of the human PHGR1 peptide sequence against itself. The window size was 10 residues.

B) Human PHGR1 peptide sequence. The five repeats are shown by colored boxes and underlining. The two variants of the repeated unit are indicated by different color and underlining.