

**Additional file 3. Cladogram of PGBD5 sequences shown in Figure 1 using human PGBD1, 2, 3, and 4 as an outgroup.**

We constructed a cladogram of all PGBD5 proteins shown in Figure 1, with the human PGBD1, 2, 3, and 4 core sequences as an outgroup, using EBI Clustal Omega to generate a Neighbor-joining tree without distance corrections. Distances are given in parentheses. We defined PGBD1, 2, 3, and 4 "core" sequences as including all detectable similarity between the complete RefSeq protein sequences but excluding unalignable N- and C-terminal regions.

