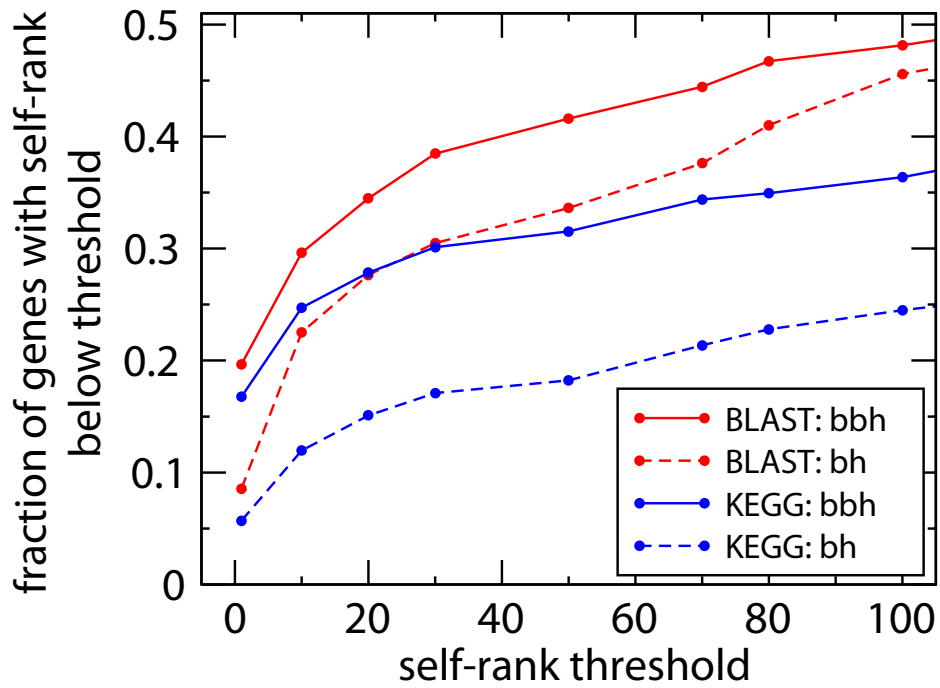


Figure 3.



Best homologs and bi-directional best homologs. *E. coli* self-rank performance based on the phylogenetic profile associations with the first layer of the neighborhood is shown for different orthology datasets. The performance is shown for BLAST-based and KEGG-based datasets constructed using closest homologs (bh), and best bi-directional homologs (bbh). Phylogenetic profile association was calculated using extended hypergeometric distribution with folding.