



Figure S8 Phylogenetic comparison *C. elegans* and human phosphodiesterases. The likely human ortholog of *C. elegans* PDE-6 is PDE8, the high-affinity cAMP-specific phosphodiesterase. Red characters represent six *C. elegans* phosphodiesterases, and blue characters represent 11 human phosphodiesterases. The following amino acid sequences were used for the analysis; Ce_PDE-1 (NP_493343.1), Ce_PDE-2 (NP_001022705), Ce_PDE-3 (NP_871943.2), Ce_PDE-4 (NP_001040798.1), Ce_PDE-5 (NP_491544.2), Ce_PDE-6 (NP_490787.1), Hs_PDE1 (NP_000915.1), Hs_PDE2 (NP_002590.1), Hs_PDE3 (NP_000913.2), Hs_PDE4 (NP_001098101.1), Hs_PDE5 (NP_001074.2), Hs_PDE6 (NP_000274.2), Hs_PDE7 (NP_001229247.1), Hs_PDE8 (NP_001025024.1), Hs_PDE9 (NP_002597.1), Hs_PDE10 (NP_001124162.1), Hs_PDE11 (NP_058649.3).