

Figure S1

Amino acid sequence alignment of steroid receptor DNA-binding domains (DBD). The sequences for cephalochordate receptors are aligned with DBDs of human steroid receptor family members. Mutation of residue C205A (boxed) in BfER prevents binding to DNA response elements.

DBD	205
BfER	CRVCGDHASGFHYGVWSCEGCKAFFKRSIQQGQTDYICPGTNQCTIDRNRRKSCQACRYRKCLMVGM
BfSR	CAVCHCPS TGLHYGVYACEGCKSFFHRAHK- RAHPYVCPANNNCVIDRRLKKNCPACRLKKCLAMGM
HumanER $\alpha$	CAVCNDYASGYHYGVWSCEGCKAFFKRSIQ- GHNDYMCPATNQCTIDKNRRKSCQACRLRKCYESVGM
HumanER $\beta$	CAVCSDYASGYHYGVWSCEGCKAFFKRSIQ- GHNDYICPATNQCTIDKNRRKSCQACRLRKCYESVGM
HumanGR	CLVCSDEASGCHYGVLTCGSCKVFFKRAVE- GQHNYLCAGRNDCIIDKIRRKNCPACRYRKCLQAGM
HumanMR	CLVCGDEASGCHYGVVTCGSCKVFFKRAVE- GQHNYLCAGRNDCIIDKIRRKNCPACRLQKCLQAGM
HumanPR	CLICGDEASGCHYGVLTCGSCKVFFKRAME- GQHNYLCAGRND CIVDKIRRKNCPACRLRKCQAGM
HumanAR	CLICGDEASGCHYGALTCGSCKVFFKRAAE- GKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYESAGM