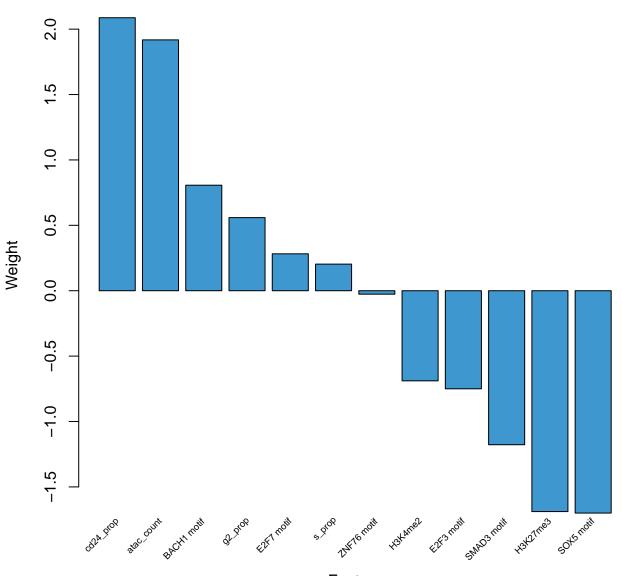mean: intrinsic + extrinsic