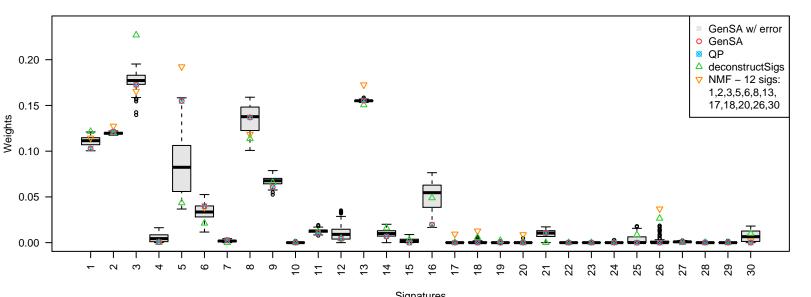
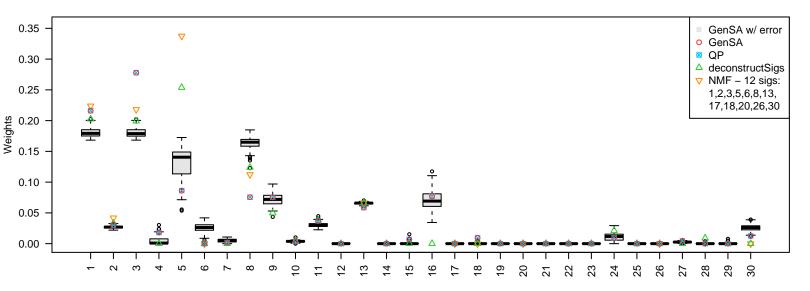
### All(optimal GSA error \* 1.05)



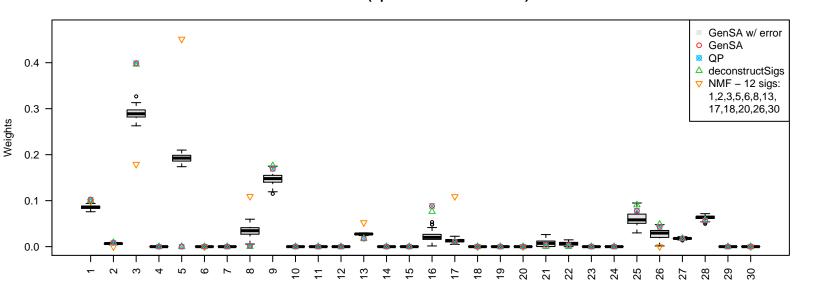
Signatures
GenSA+error(median) 0.00862, GenSA 0.00824, QP 0.00824, deconstructSigs 0.00887, NMF 0.01459

## PD10010(optimal GSA error \* 1.05)



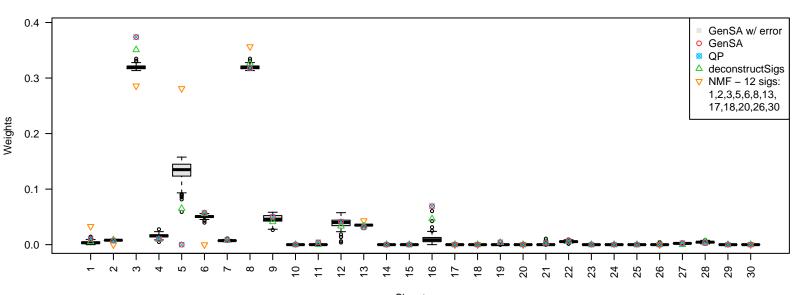
Signatures
GenSA+error(median) 0.02560, GenSA 0.02454, QP 0.02454, deconstructSigs 0.02501, NMF 0.02795

### PD10011(optimal GSA error \* 1.05)



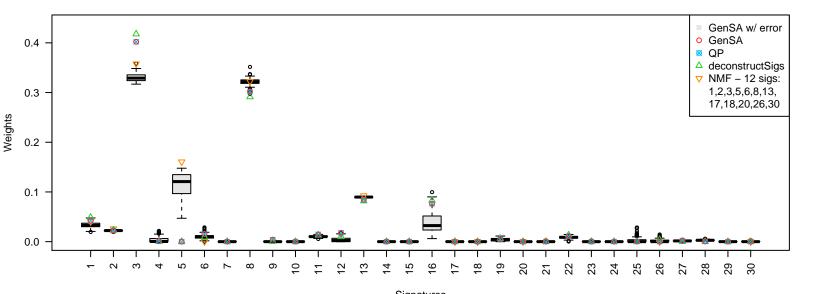
Signatures
GenSA+error(median) 0.02738, GenSA 0.02613, QP 0.02613, deconstructSigs 0.02616, NMF 0.04164

### PD10014(optimal GSA error \* 1.05)



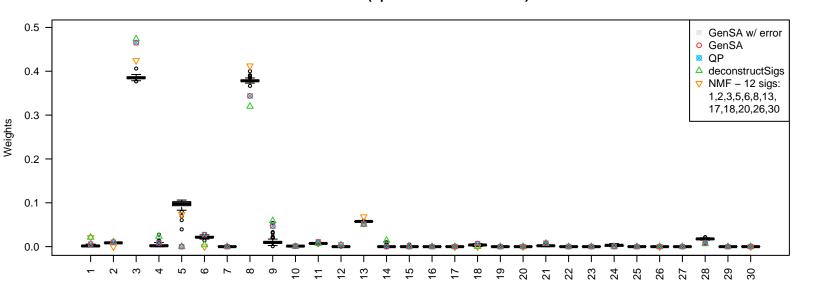
Signatures
GenSA+error(median) 0.01213, GenSA 0.01159, QP 0.01159, deconstructSigs 0.01178, NMF 0.01562

### PD11326(optimal GSA error \* 1.05)



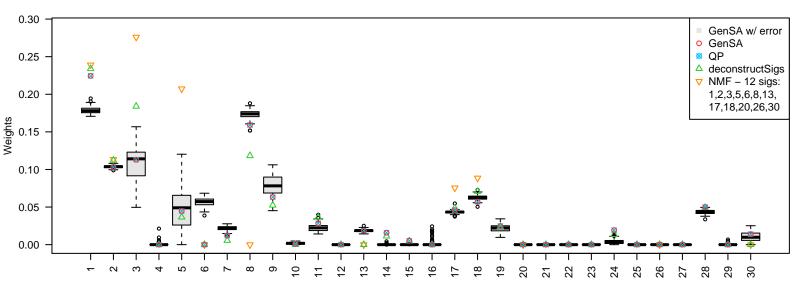
Signatures
GenSA+error(median) 0.01562, GenSA 0.01491, QP 0.01491, deconstructSigs 0.01500, NMF 0.01646

### PD11327(optimal GSA error \* 1.05)



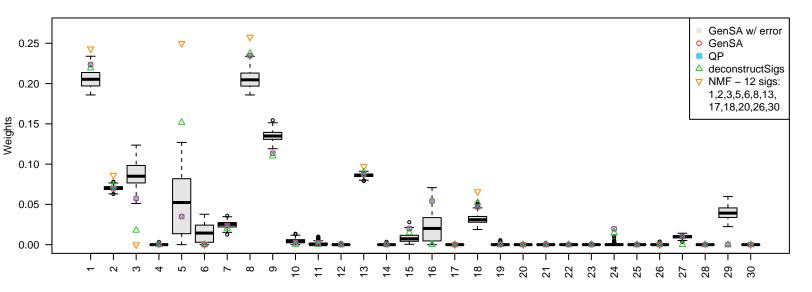
Signatures
GenSA+error(median) 0.01588, GenSA 0.01515, QP 0.01515, deconstructSigs 0.01535, NMF 0.01883

### PD11336(optimal GSA error \* 1.05)



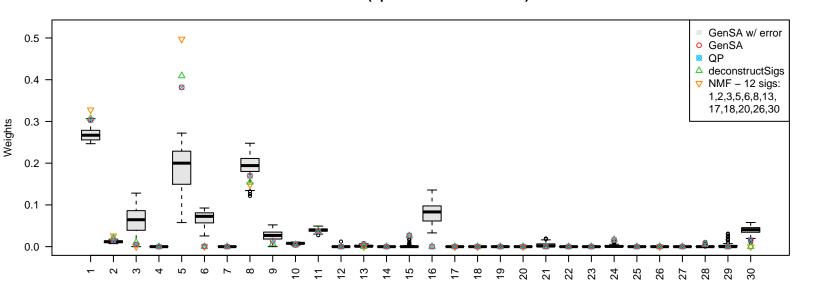
Signatures
GenSA+error(median) 0.02262, GenSA 0.02166, QP 0.02166, deconstructSigs 0.02266, NMF 0.03021

### PD11337(optimal GSA error \* 1.05)



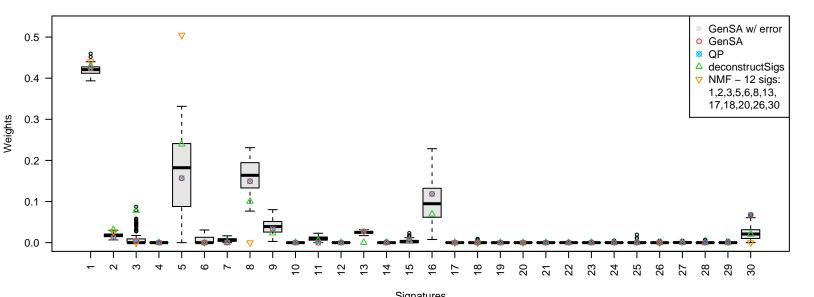
Signatures
GenSA+error(median) 0.02409, GenSA 0.02317, QP 0.02317, deconstructSigs 0.02367, NMF 0.02804

### PD11338(optimal GSA error \* 1.05)



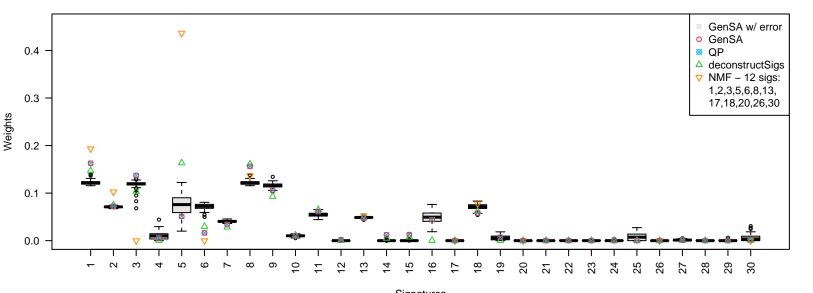
Signatures
GenSA+error(median) 0.02884, GenSA 0.02758, QP 0.02758, deconstructSigs 0.02772, NMF 0.03078

### PD11339(optimal GSA error \* 1.05)



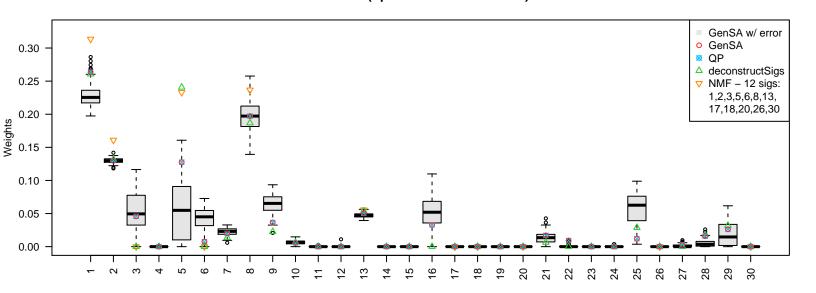
Signatures
GenSA+error(median) 0.02775, GenSA 0.02667, QP 0.02667, deconstructSigs 0.02867, NMF 0.03036

## PD11340(optimal GSA error \* 1.05)



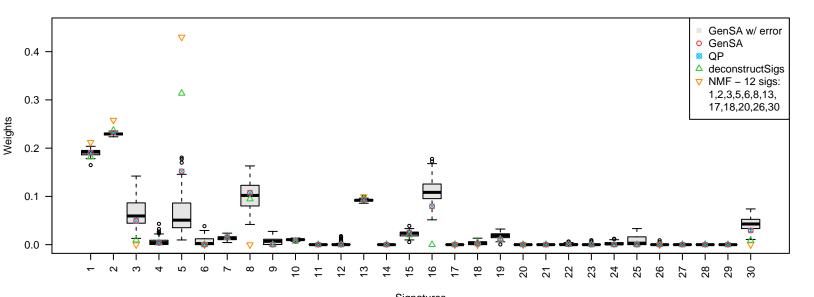
Signatures
GenSA+error(median) 0.02208, GenSA 0.02115, QP 0.02115, deconstructSigs 0.02140, NMF 0.03419

### PD11341(optimal GSA error \* 1.05)



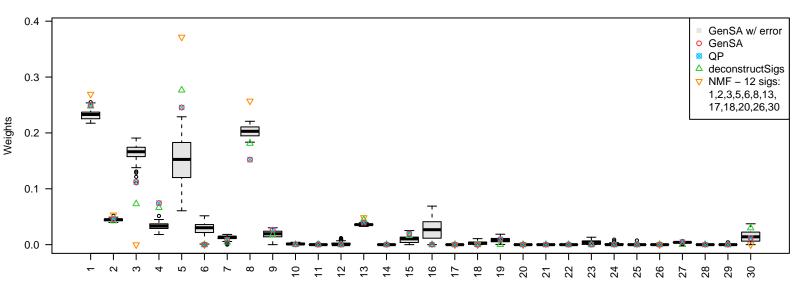
Signatures
GenSA+error(median) 0.02931, GenSA 0.02820, QP 0.02820, deconstructSigs 0.02846, NMF 0.03423

### PD11342(optimal GSA error \* 1.05)



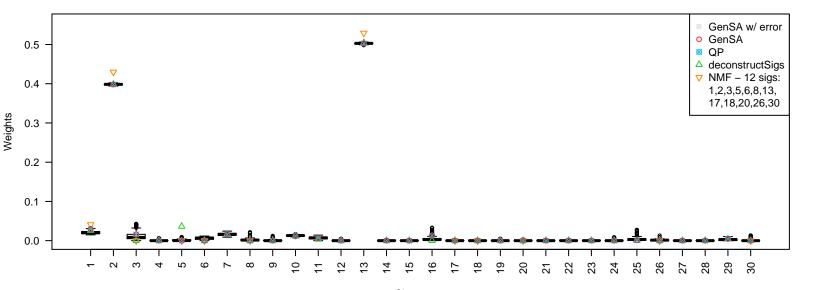
Signatures
GenSA+error(median) 0.01789, GenSA 0.01717, QP 0.01717, deconstructSigs 0.01759, NMF 0.02336

### PD11343(optimal GSA error \* 1.05)



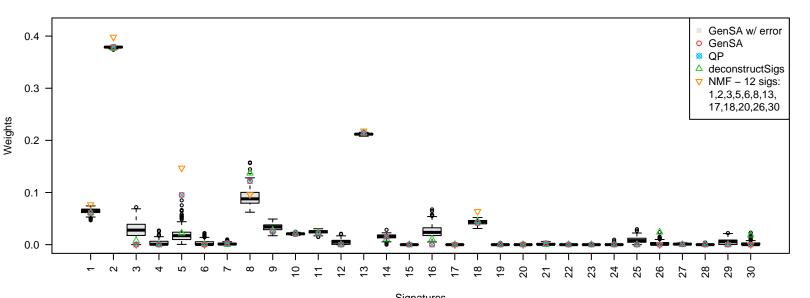
Signatures
GenSA+error(median) 0.02219, GenSA 0.02120, QP 0.02120, deconstructSigs 0.02145, NMF 0.02488

### PD11344(optimal GSA error \* 1.05)



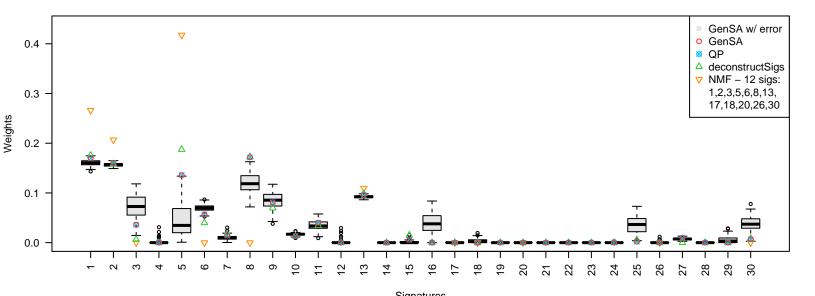
Signatures
GenSA+error(median) 0.00984, GenSA 0.00944, QP 0.00944, deconstructSigs 0.00975, NMF 0.02315

### PD11345(optimal GSA error \* 1.05)



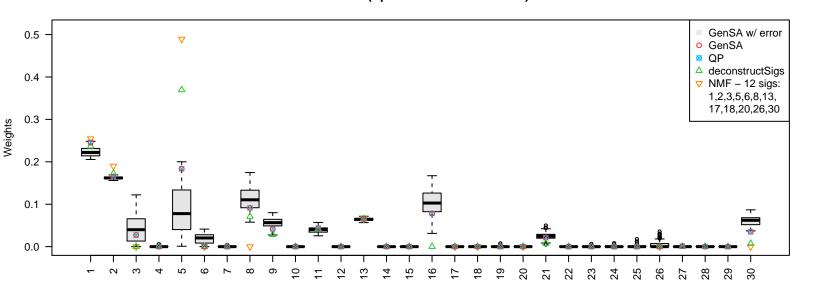
Signatures
GenSA+error(median) 0.01363, GenSA 0.01302, QP 0.01302, deconstructSigs 0.01345, NMF 0.01827

# PD11346(optimal GSA error \* 1.05)



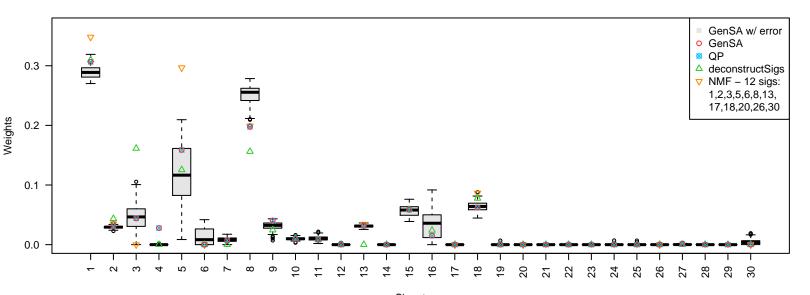
Signatures
GenSA+error(median) 0.02521, GenSA 0.02421, QP 0.02421, deconstructSigs 0.02463, NMF 0.04088

### PD11347(optimal GSA error \* 1.05)



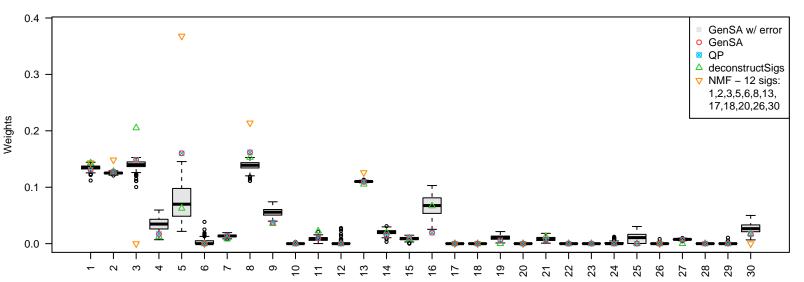
Signatures
GenSA+error(median) 0.02448, GenSA 0.02348, QP 0.02348, deconstructSigs 0.02387, NMF 0.02788

### PD11348(optimal GSA error \* 1.05)



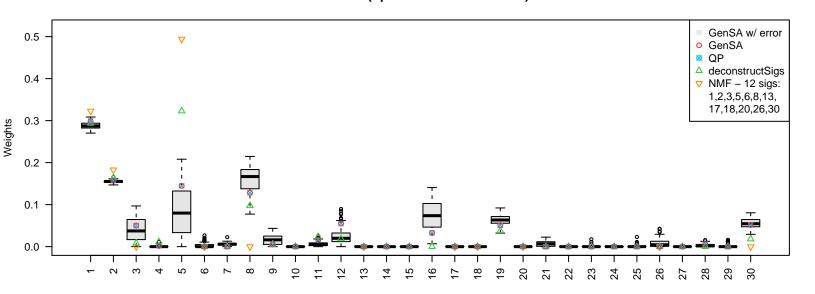
 $Signatures \\ GenSA+error(median)~0.02142,~GenSA~0.02060,~QP~0.02060,~deconstructSigs~0.02337,~NMF~0.02507$ 

## PD11349(optimal GSA error \* 1.05)



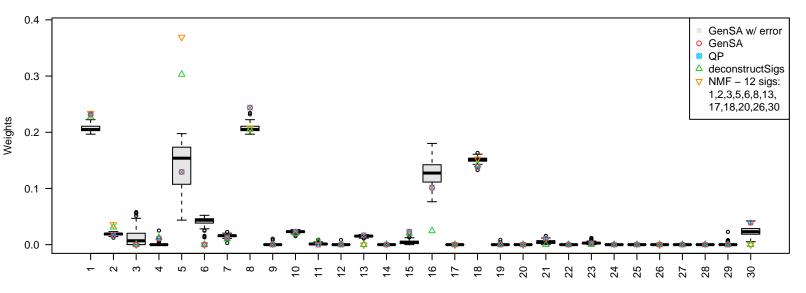
Signatures
GenSA+error(median) 0.01694, GenSA 0.01623, QP 0.01623, deconstructSigs 0.01679, NMF 0.02215

### PD11352(optimal GSA error \* 1.05)



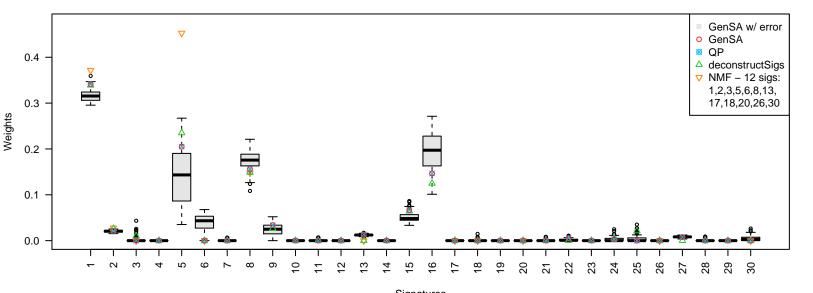
Signatures
GenSA+error(median) 0.02285, GenSA 0.02194, QP 0.02194, deconstructSigs 0.02238, NMF 0.02795

### PD11355(optimal GSA error \* 1.05)



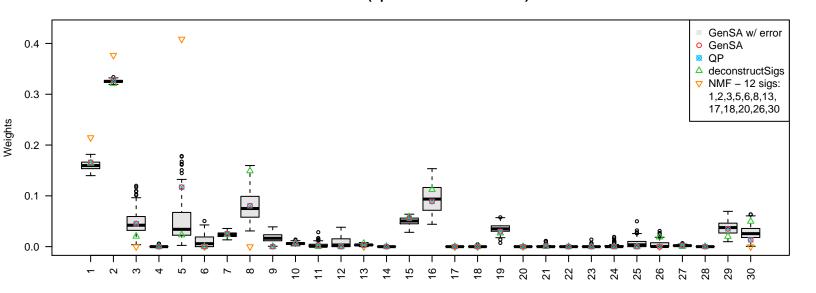
Signatures
GenSA+error(median) 0.02339, GenSA 0.02237, QP 0.02237, deconstructSigs 0.02378, NMF 0.02579

## **PD11357(optimal GSA error \* 1.05)**



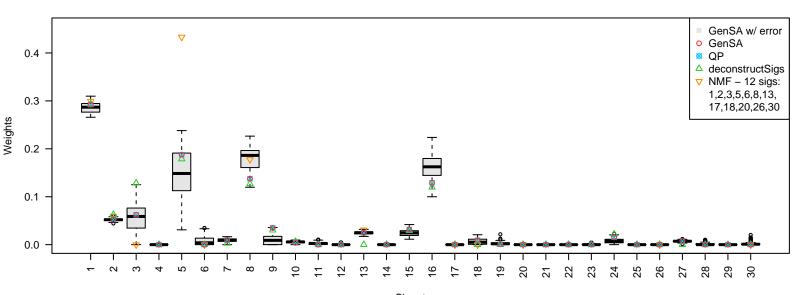
Signatures
GenSA+error(median) 0.02480, GenSA 0.02378, QP 0.02378, deconstructSigs 0.02459, NMF 0.02918

### PD11358(optimal GSA error \* 1.05)



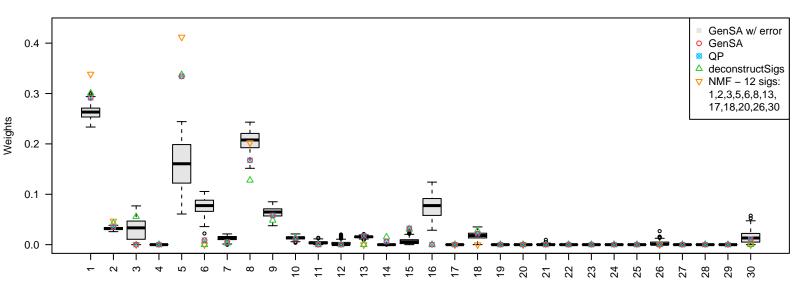
Signatures
GenSA+error(median) 0.01912, GenSA 0.01834, QP 0.01834, deconstructSigs 0.01903, NMF 0.03117

### PD11359(optimal GSA error \* 1.05)



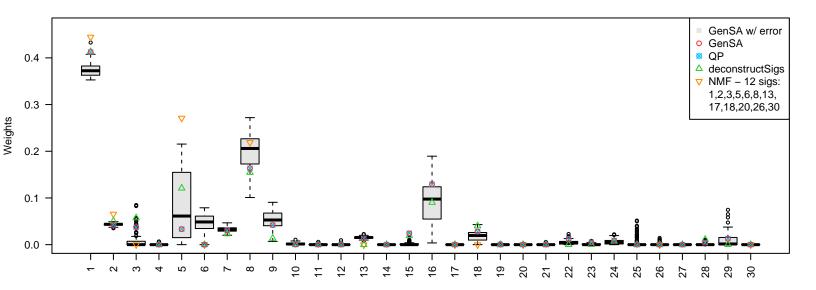
Signatures
GenSA+error(median) 0.02249, GenSA 0.02168, QP 0.02168, deconstructSigs 0.02370, NMF 0.02391

# PD11360(optimal GSA error \* 1.05)



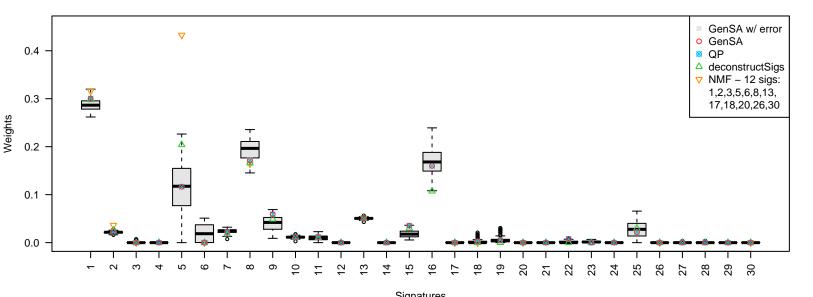
Signatures
GenSA+error(median) 0.02559, GenSA 0.02448, QP 0.02448, deconstructSigs 0.02532, NMF 0.02883

# PD11361(optimal GSA error \* 1.05)



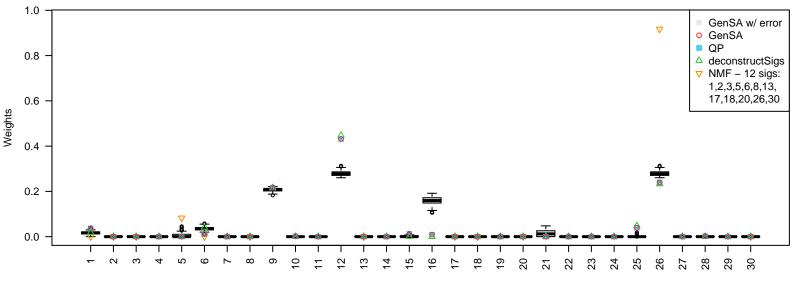
Signatures
GenSA+error(median) 0.02669, GenSA 0.02563, QP 0.02563, deconstructSigs 0.02655, NMF 0.03051

### PD11364(optimal GSA error \* 1.05)



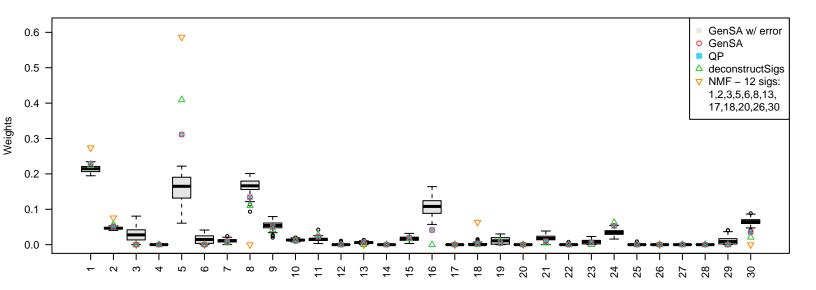
Signatures
GenSA+error(median) 0.02433, GenSA 0.02341, QP 0.02341, deconstructSigs 0.02365, NMF 0.02733

# PD11365(optimal GSA error \* 1.05)



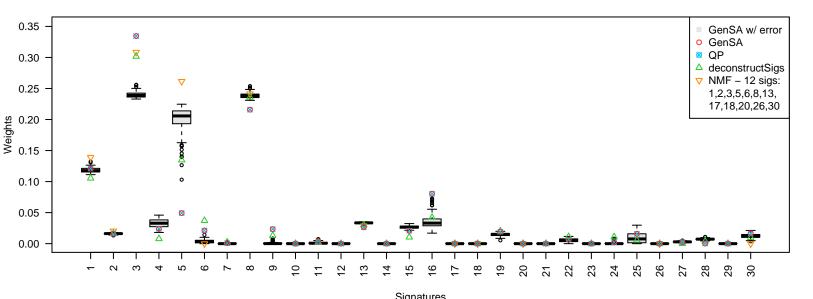
Signatures
GenSA+error(median) 0.04312, GenSA 0.04135, QP 0.04135, deconstructSigs 0.04146, NMF 0.07639

### PD11366(optimal GSA error \* 1.05)



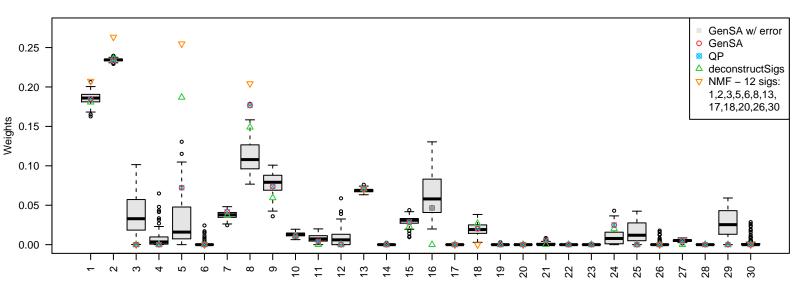
Signatures
GenSA+error(median) 0.02765, GenSA 0.02656, QP 0.02656, deconstructSigs 0.02688, NMF 0.03259

### PD11367(optimal GSA error \* 1.05)



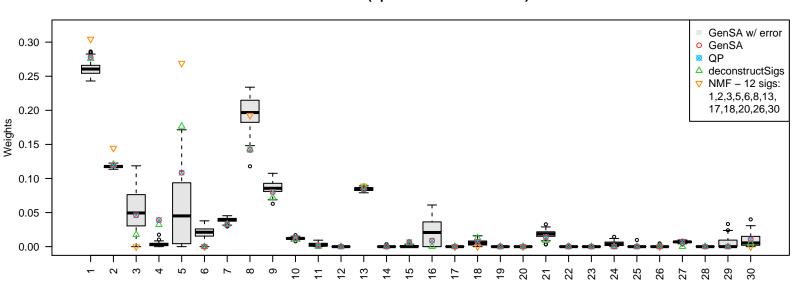
Signatures
GenSA+error(median) 0.01550, GenSA 0.01480, QP 0.01480, deconstructSigs 0.01504, NMF 0.01749

## PD11368(optimal GSA error \* 1.05)



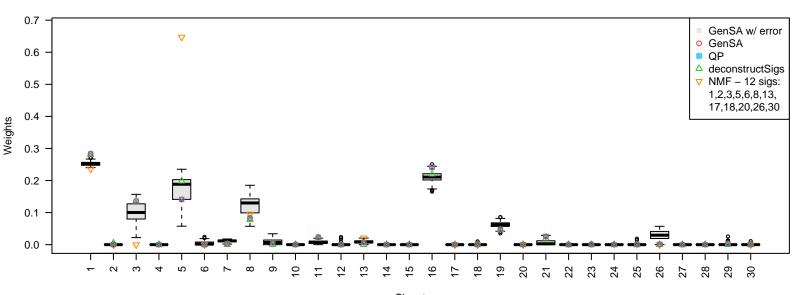
Signatures
GenSA+error(median) 0.02011, GenSA 0.01926, QP 0.01926, deconstructSigs 0.01967, NMF 0.02648

### PD11369(optimal GSA error \* 1.05)



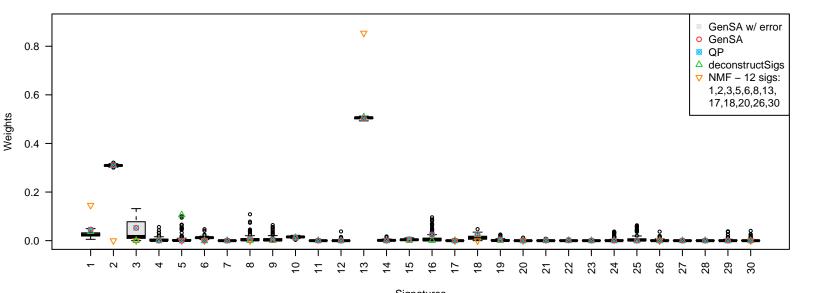
Signatures
GenSA+error(median) 0.01943, GenSA 0.01861, QP 0.01861, deconstructSigs 0.01898, NMF 0.02520

### PD11370(optimal GSA error \* 1.05)



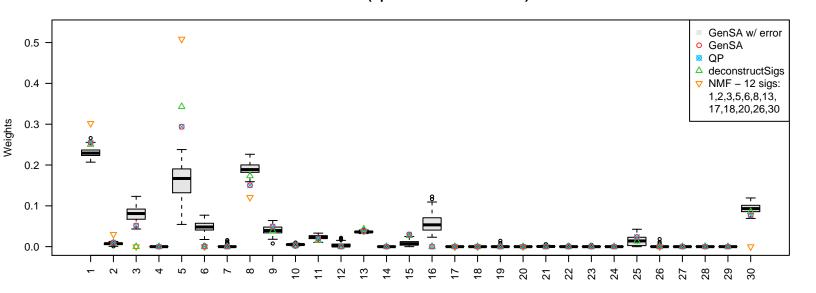
Signatures
GenSA+error(median) 0.02859, GenSA 0.02755, QP 0.02755, deconstructSigs 0.02780, NMF 0.03098

### PD11372(optimal GSA error \* 1.05)



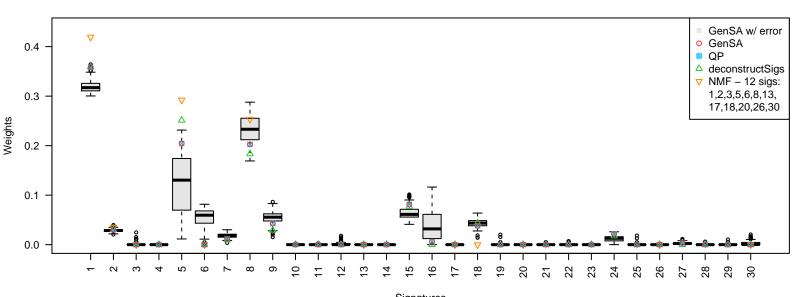
 $Signatures \\ GenSA+error(median)~0.02302,~GenSA~0.02204,~QP~0.02204,~deconstructSigs~0.02238,~NMF~0.17312$ 

### PD11374(optimal GSA error \* 1.05)



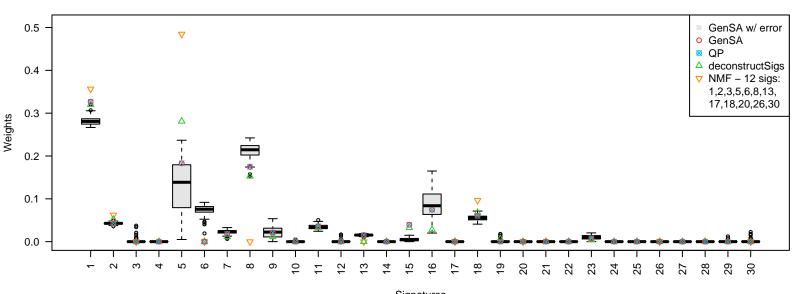
Signatures
GenSA+error(median) 0.02495, GenSA 0.02388, QP 0.02388, deconstructSigs 0.02405, NMF 0.02972

### PD11375(optimal GSA error \* 1.05)



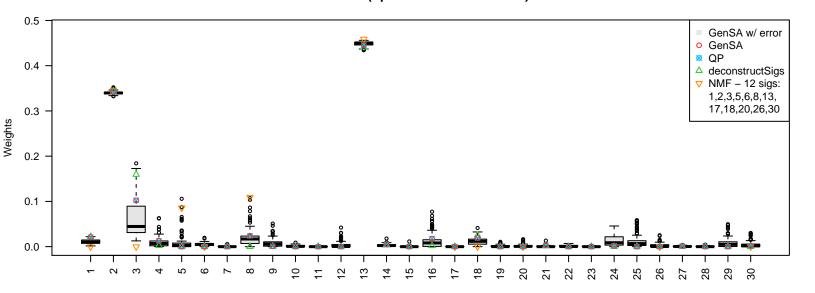
Signatures
GenSA+error(median) 0.03420, GenSA 0.03280, QP 0.03280, deconstructSigs 0.03292, NMF 0.03890

# PD11376(optimal GSA error \* 1.05)



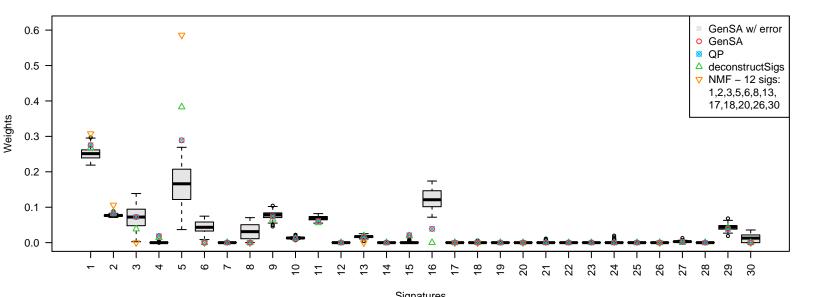
Signatures
GenSA+error(median) 0.02615, GenSA 0.02503, QP 0.02503, deconstructSigs 0.02606, NMF 0.03177

### PD11379(optimal GSA error \* 1.05)



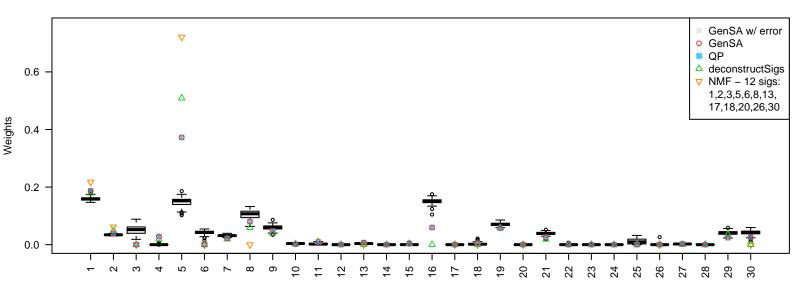
Signatures
GenSA+error(median) 0.01996, GenSA 0.01912, QP 0.01912, deconstructSigs 0.01938, NMF 0.02080

### PD11380(optimal GSA error \* 1.05)



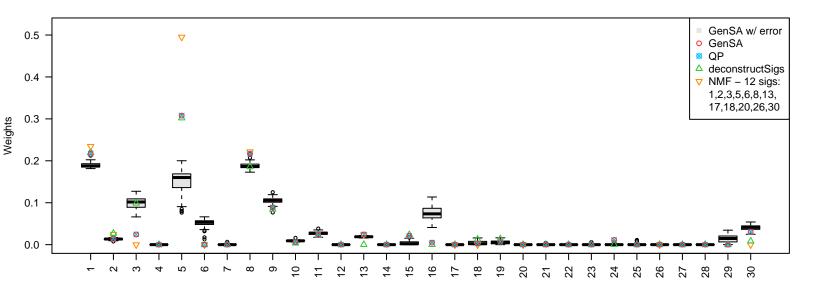
Signatures
GenSA+error(median) 0.02777, GenSA 0.02666, QP 0.02666, deconstructSigs 0.02679, NMF 0.03437

### PD11381(optimal GSA error \* 1.05)



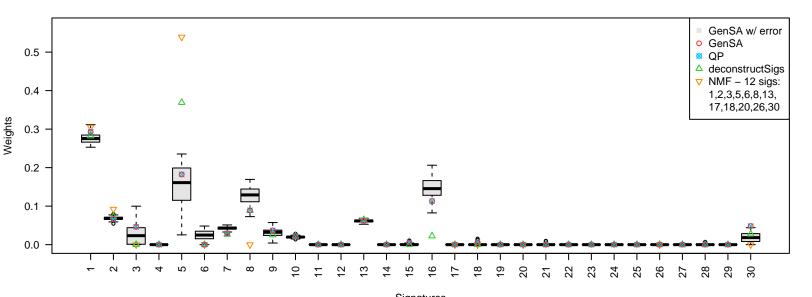
Signatures
GenSA+error(median) 0.02301, GenSA 0.02203, QP 0.02203, deconstructSigs 0.02253, NMF 0.02884

### PD11383(optimal GSA error \* 1.05)



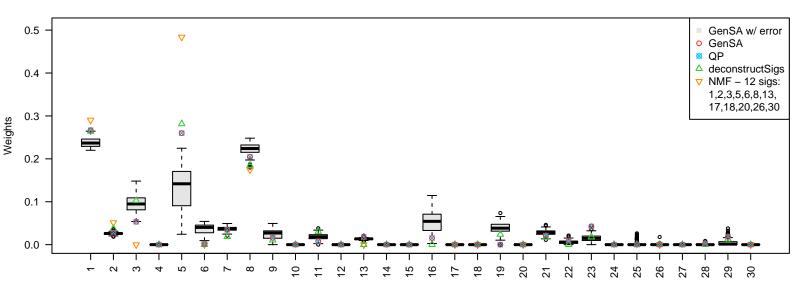
Signatures
GenSA+error(median) 0.02557, GenSA 0.02443, QP 0.02443, deconstructSigs 0.02591, NMF 0.02802

### PD11384(optimal GSA error \* 1.05)



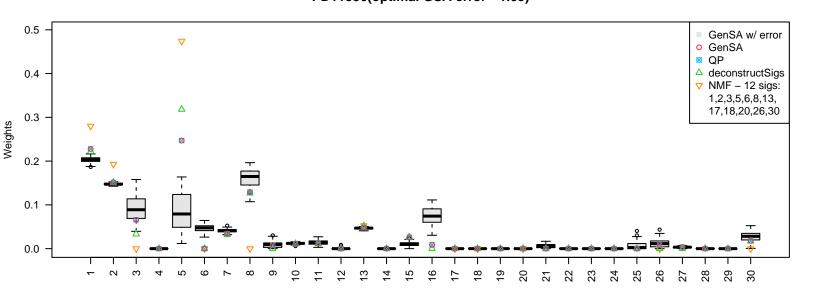
Signatures
GenSA+error(median) 0.02515, GenSA 0.02414, QP 0.02414, deconstructSigs 0.02453, NMF 0.02979

### PD11385(optimal GSA error \* 1.05)



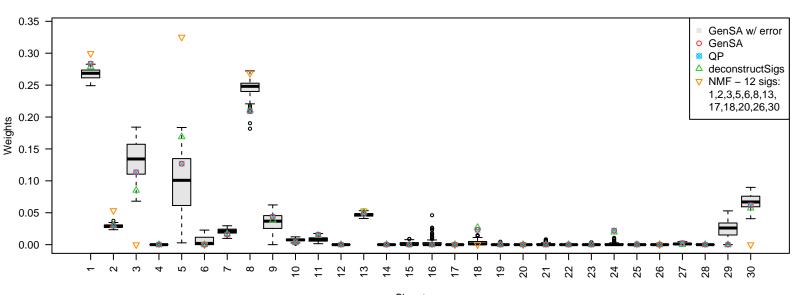
Signatures
GenSA+error(median) 0.02583, GenSA 0.02476, QP 0.02476, deconstructSigs 0.02595, NMF 0.03247

# PD11386(optimal GSA error \* 1.05)



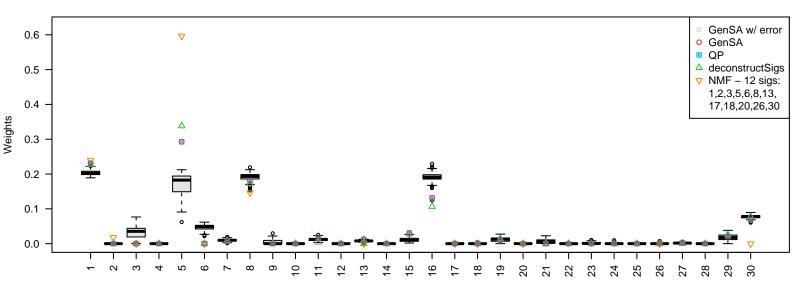
Signatures
GenSA+error(median) 0.02278, GenSA 0.02176, QP 0.02176, deconstructSigs 0.02191, NMF 0.03220

### PD11388(optimal GSA error \* 1.05)



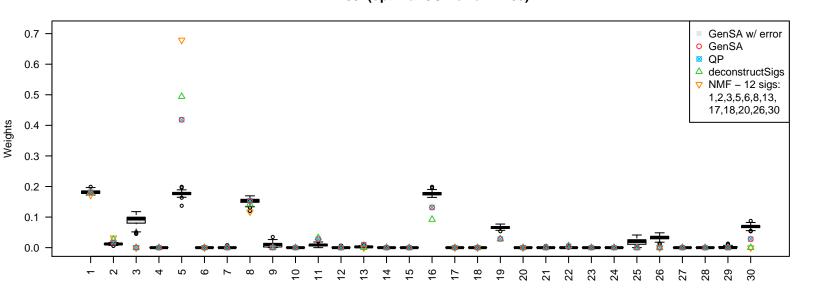
Signatures
GenSA+error(median) 0.02292, GenSA 0.02199, QP 0.02199, deconstructSigs 0.02212, NMF 0.02839

## PD11389(optimal GSA error \* 1.05)



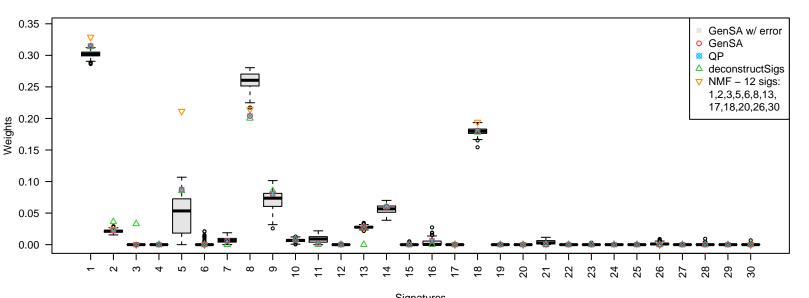
Signatures
GenSA+error(median) 0.02852, GenSA 0.02730, QP 0.02730, deconstructSigs 0.02790, NMF 0.03200

# PD11391(optimal GSA error \* 1.05)



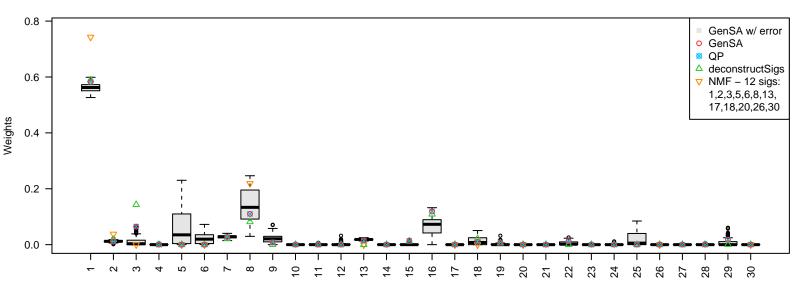
Signatures
GenSA+error(median) 0.02973, GenSA 0.02848, QP 0.02848, deconstructSigs 0.02887, NMF 0.03104

### PD11393(optimal GSA error \* 1.05)



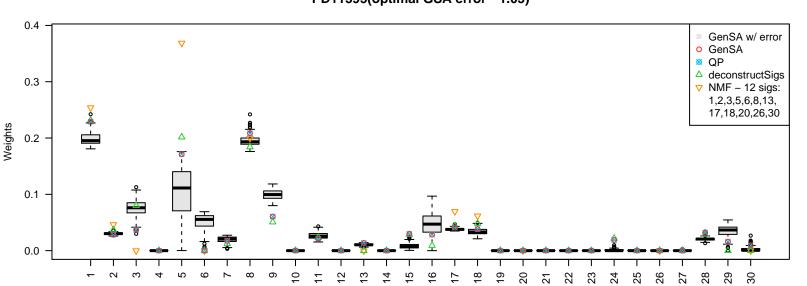
Signatures
GenSA+error(median) 0.02367, GenSA 0.02278, QP 0.02278, deconstructSigs 0.02556, NMF 0.02638

## PD11394(optimal GSA error \* 1.05)



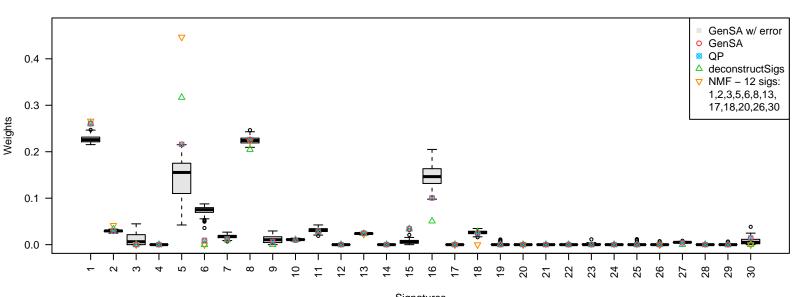
Signatures
GenSA+error(median) 0.02820, GenSA 0.02707, QP 0.02707, deconstructSigs 0.02785, NMF 0.04823

# PD11395(optimal GSA error \* 1.05)



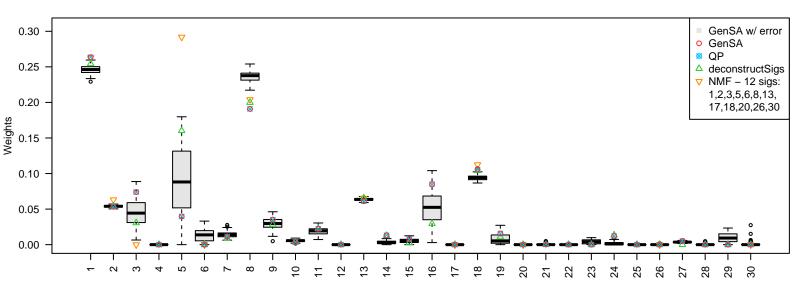
Signatures
GenSA+error(median) 0.02262, GenSA 0.02165, QP 0.02165, deconstructSigs 0.02227, NMF 0.02747

### PD11396(optimal GSA error \* 1.05)



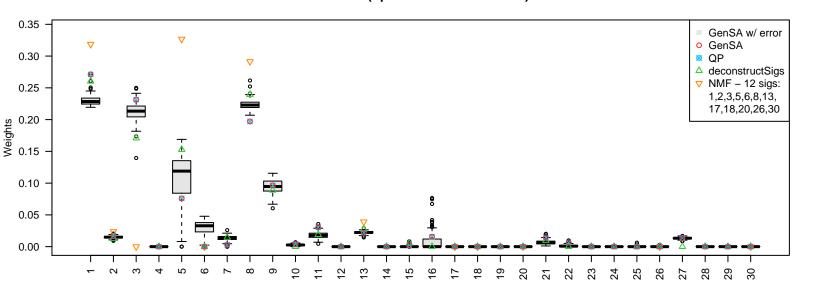
Signatures
GenSA+error(median) 0.02087, GenSA 0.01997, QP 0.01997, deconstructSigs 0.02023, NMF 0.02493

### PD11397(optimal GSA error \* 1.05)



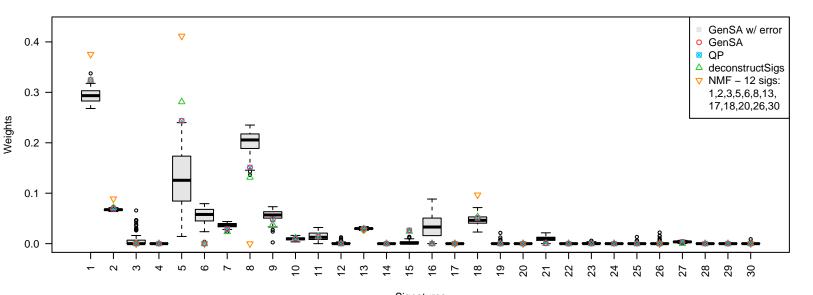
Signatures
GenSA+error(median) 0.01801, GenSA 0.01727, QP 0.01727, deconstructSigs 0.01760, NMF 0.02027

### PD11398(optimal GSA error \* 1.05)



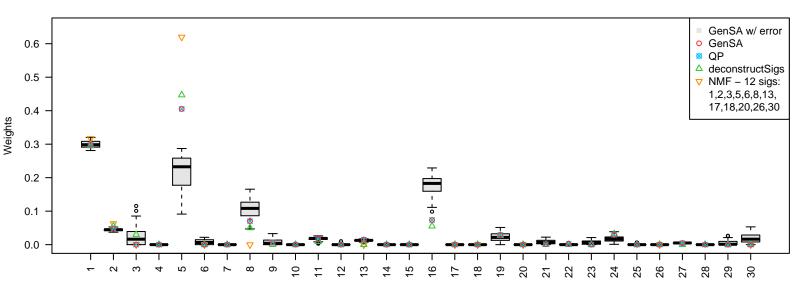
Signatures
GenSA+error(median) 0.02500, GenSA 0.02395, QP 0.02395, deconstructSigs 0.02489, NMF 0.03267

### PD11399(optimal GSA error \* 1.05)



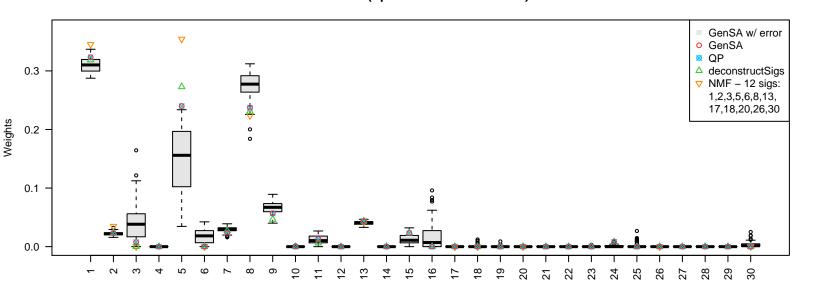
Signatures
GenSA+error(median) 0.02465, GenSA 0.02358, QP 0.02358, deconstructSigs 0.02372, NMF 0.02946

# PD11402(optimal GSA error \* 1.05)



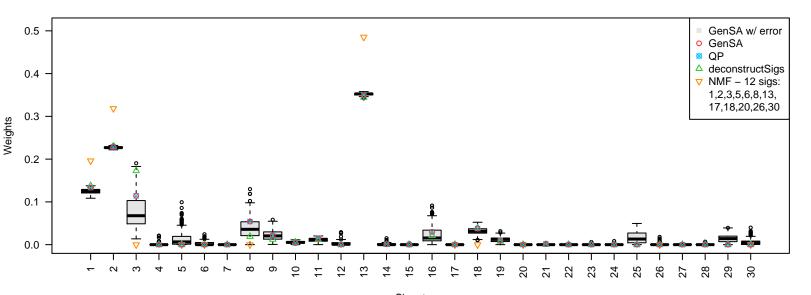
Signatures
GenSA+error(median) 0.02353, GenSA 0.02253, QP 0.02253, deconstructSigs 0.02342, NMF 0.02661

### PD11462(optimal GSA error \* 1.05)



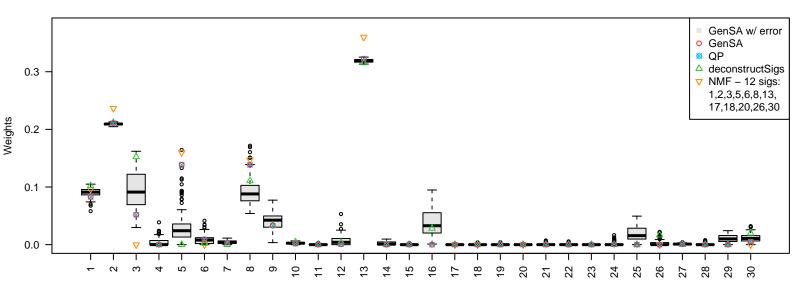
Signatures
GenSA+error(median) 0.02934, GenSA 0.02814, QP 0.02814, deconstructSigs 0.02821, NMF 0.03037

### PD11464(optimal GSA error \* 1.05)



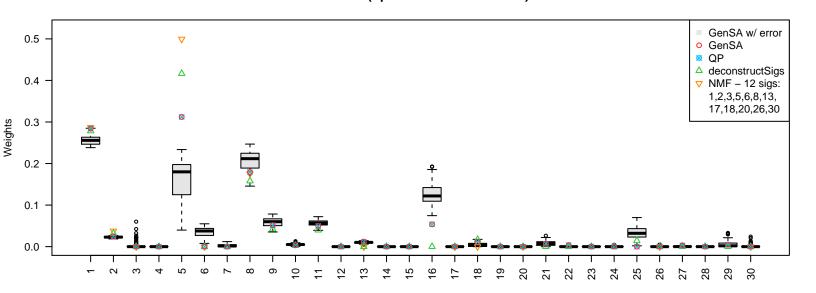
Signatures
GenSA+error(median) 0.01958, GenSA 0.01876, QP 0.01876, deconstructSigs 0.01905, NMF 0.08910

### PD11465(optimal GSA error \* 1.05)



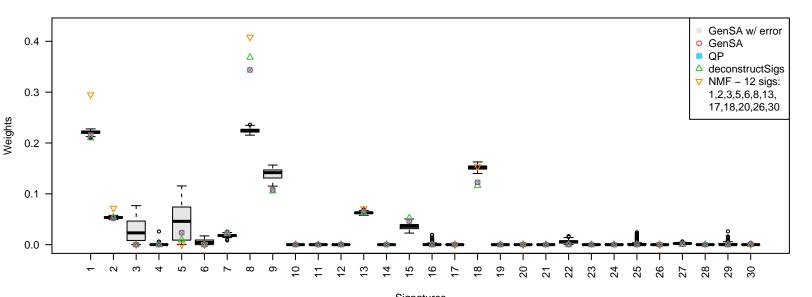
Signatures
GenSA+error(median) 0.01735, GenSA 0.01659, QP 0.01659, deconstructSigs 0.01725, NMF 0.02871

# PD11740(optimal GSA error \* 1.05)



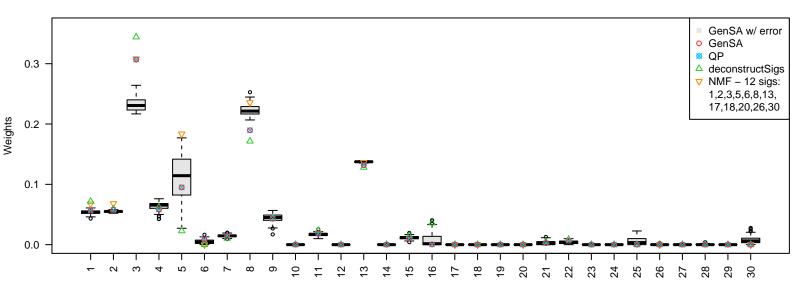
Signatures
GenSA+error(median) 0.02630, GenSA 0.02522, QP 0.02522, deconstructSigs 0.02594, NMF 0.02832

### PD11741(optimal GSA error \* 1.05)



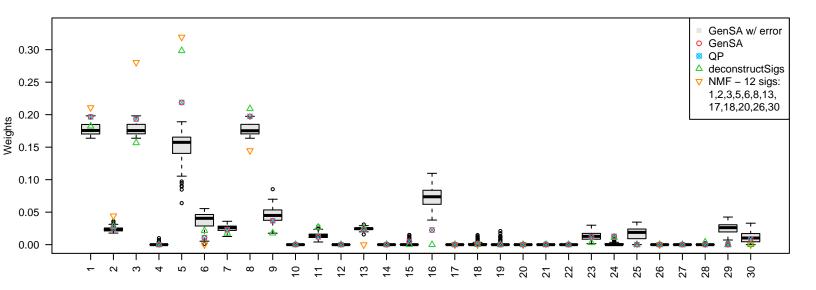
 $Signatures \\ GenSA+error(median)~0.03142,~GenSA~0.03006,~QP~0.03006,~deconstructSigs~0.03016,~NMF~0.03882$ 

## PD11742(optimal GSA error \* 1.05)



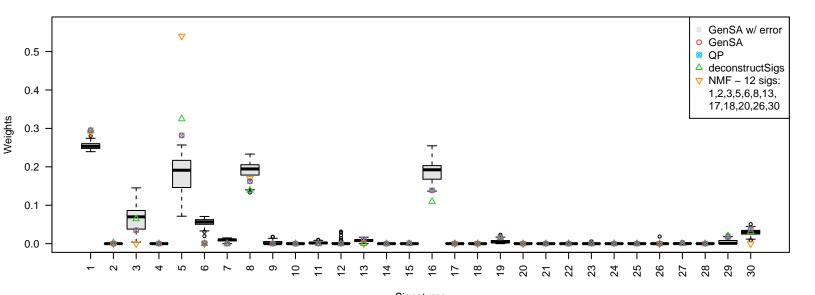
Signatures
GenSA+error(median) 0.01440, GenSA 0.01376, QP 0.01376, deconstructSigs 0.01396, NMF 0.01794

### PD11743(optimal GSA error \* 1.05)



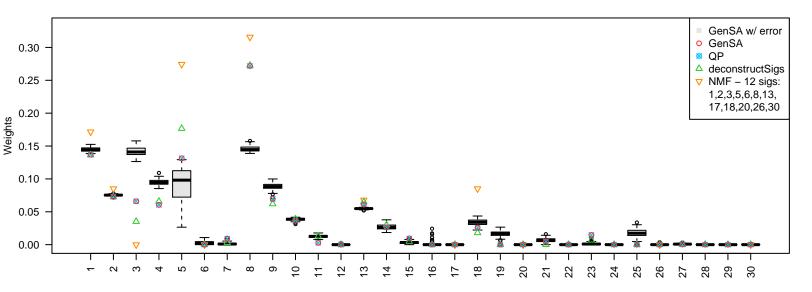
Signatures
GenSA+error(median) 0.02288, GenSA 0.02203, QP 0.02203, deconstructSigs 0.02225, NMF 0.02603

### PD11744(optimal GSA error \* 1.05)



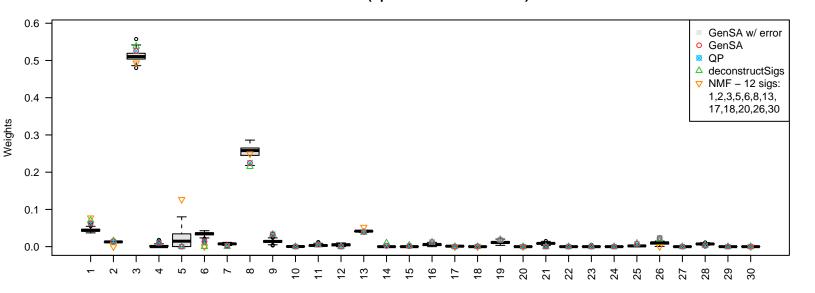
Signatures
GenSA+error(median) 0.02763, GenSA 0.02649, QP 0.02649, deconstructSigs 0.02701, NMF 0.02884

### PD11745(optimal GSA error \* 1.05)



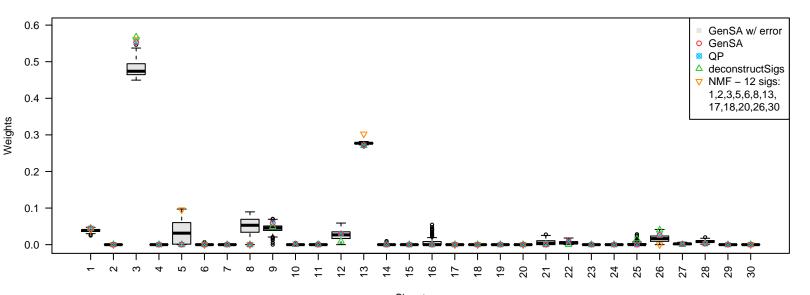
Signatures
GenSA+error(median) 0.02464, GenSA 0.02353, QP 0.02353, deconstructSigs 0.02367, NMF 0.03028

### PD11748(optimal GSA error \* 1.05)



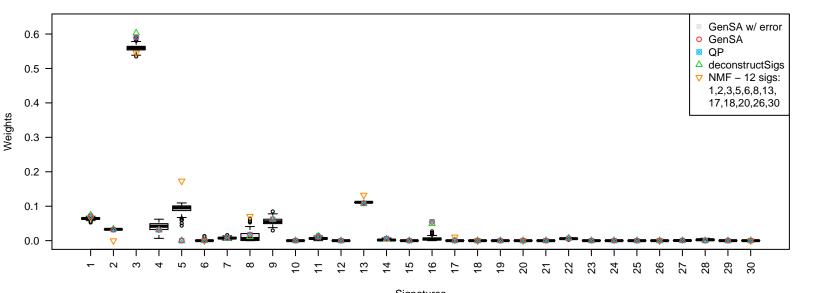
Signatures
GenSA+error(median) 0.01332, GenSA 0.01276, QP 0.01276, deconstructSigs 0.01283, NMF 0.01617

### PD11750(optimal GSA error \* 1.05)



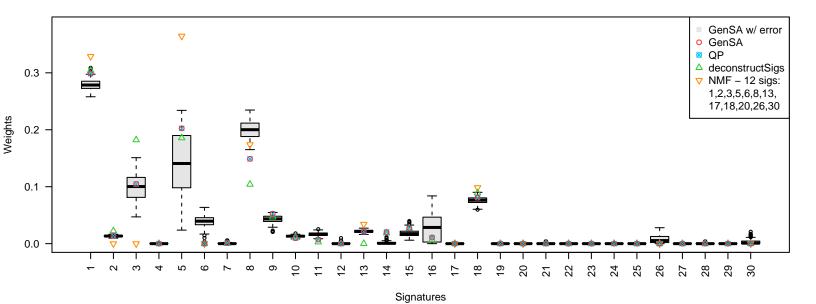
Signatures
GenSA+error(median) 0.02253, GenSA 0.02154, QP 0.02154, deconstructSigs 0.02170, NMF 0.02814

### **PD11751(optimal GSA error \* 1.05)**



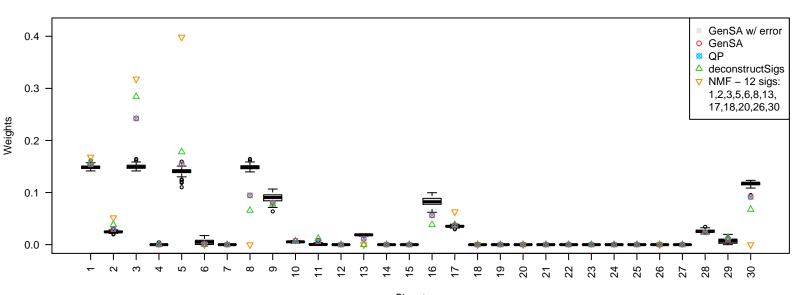
Signatures
GenSA+error(median) 0.01569, GenSA 0.01498, QP 0.01498, deconstructSigs 0.01502, NMF 0.02379

### PD11752(optimal GSA error \* 1.05)



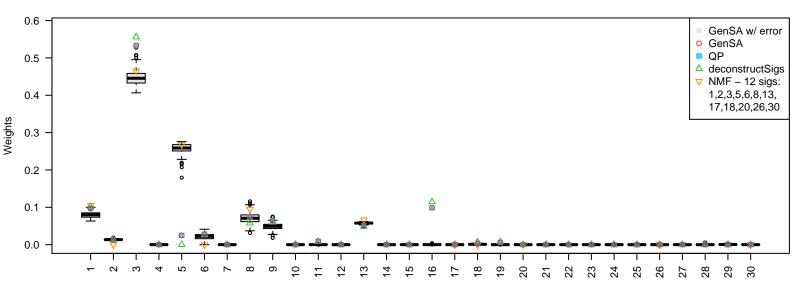
GenSA+error(median) 0.01960, GenSA 0.01875, QP 0.01875, deconstructSigs 0.02017, NMF 0.02312

### PD11753(optimal GSA error \* 1.05)



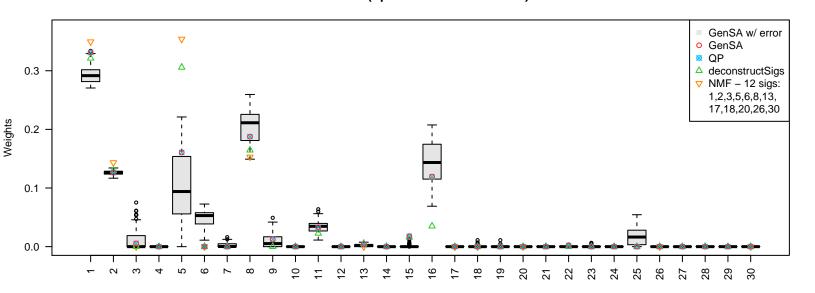
Signatures
GenSA+error(median) 0.01913, GenSA 0.01831, QP 0.01831, deconstructSigs 0.01882, NMF 0.02435

## **PD11755(optimal GSA error \* 1.05)**



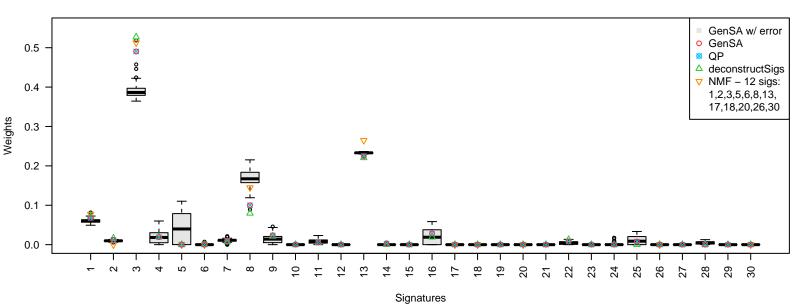
Signatures
GenSA+error(median) 0.02142, GenSA 0.02046, QP 0.02046, deconstructSigs 0.02051, NMF 0.02287

### PD11756(optimal GSA error \* 1.05)



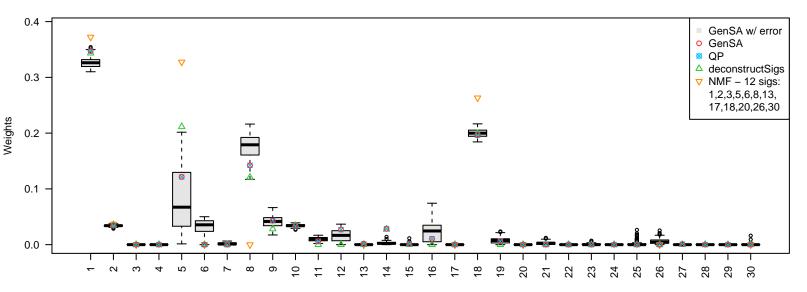
Signatures
GenSA+error(median) 0.02958, GenSA 0.02847, QP 0.02847, deconstructSigs 0.02884, NMF 0.03070

### **PD11757(optimal GSA error \* 1.05)**



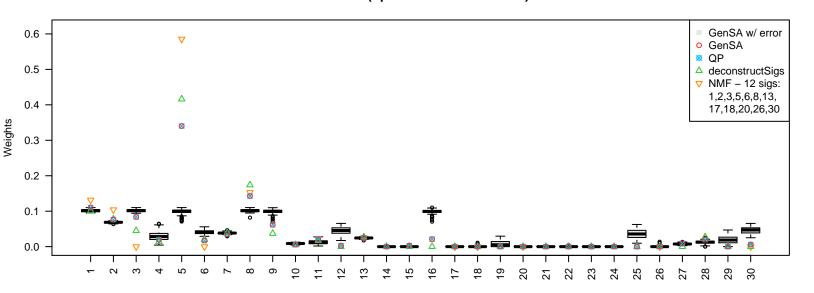
GenSA+error(median) 0.02408, GenSA 0.02302, QP 0.02302, deconstructSigs 0.02316, NMF 0.02995

## PD11760(optimal GSA error \* 1.05)



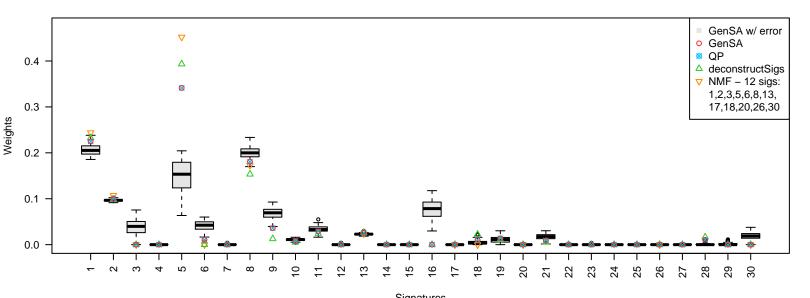
Signatures
GenSA+error(median) 0.02273, GenSA 0.02180, QP 0.02180, deconstructSigs 0.02200, NMF 0.02749

### PD11761(optimal GSA error \* 1.05)



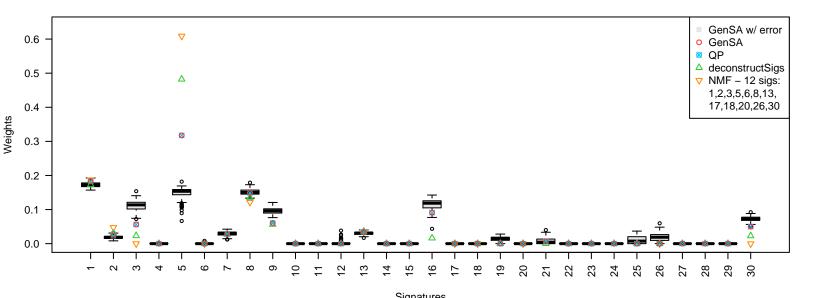
Signatures
GenSA+error(median) 0.03160, GenSA 0.03025, QP 0.03025, deconstructSigs 0.03055, NMF 0.03579

### PD11762(optimal GSA error \* 1.05)



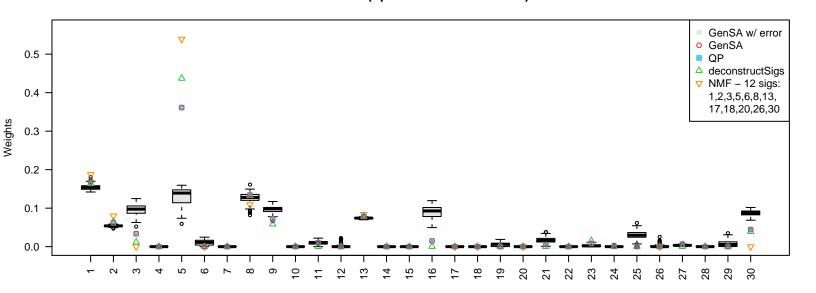
Signatures
GenSA+error(median) 0.02708, GenSA 0.02592, QP 0.02592, deconstructSigs 0.02614, NMF 0.02803

### PD11765(optimal GSA error \* 1.05)



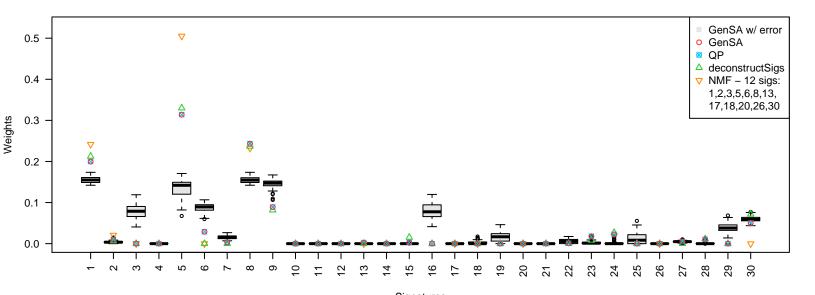
Signatures
GenSA+error(median) 0.02917, GenSA 0.02812, QP 0.02812, deconstructSigs 0.02838, NMF 0.03095

# PD11766(optimal GSA error \* 1.05)



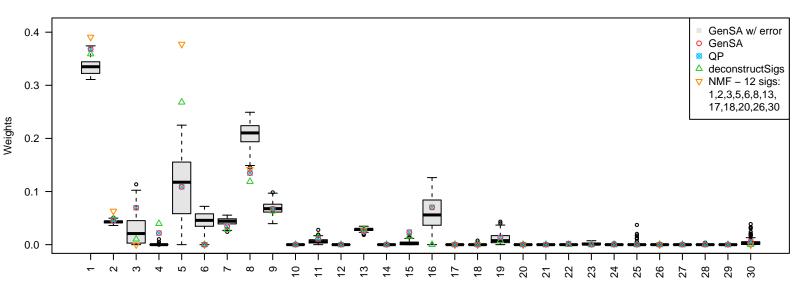
Signatures
GenSA+error(median) 0.02930, GenSA 0.02810, QP 0.02810, deconstructSigs 0.02833, NMF 0.03105

### PD11767(optimal GSA error \* 1.05)



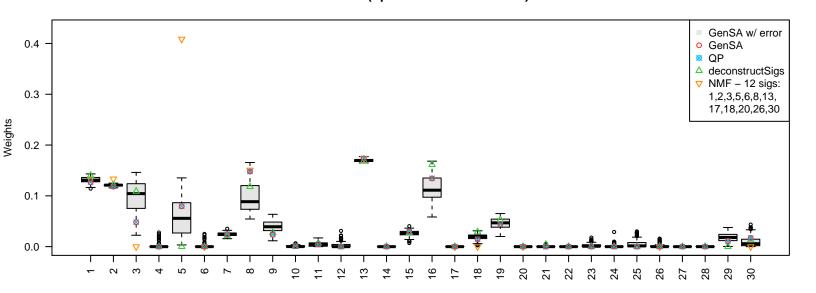
 $Signatures \\ GenSA+error(median)~0.04533,~GenSA~0.04330,~QP~0.04330,~deconstructSigs~0.04348,~NMF~0.04615$ 

# PD11769(optimal GSA error \* 1.05)



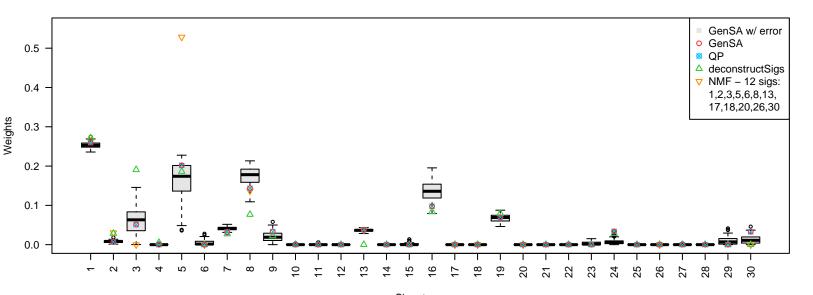
Signatures
GenSA+error(median) 0.02547, GenSA 0.02443, QP 0.02443, deconstructSigs 0.02478, NMF 0.02877

### PD11816(optimal GSA error \* 1.05)



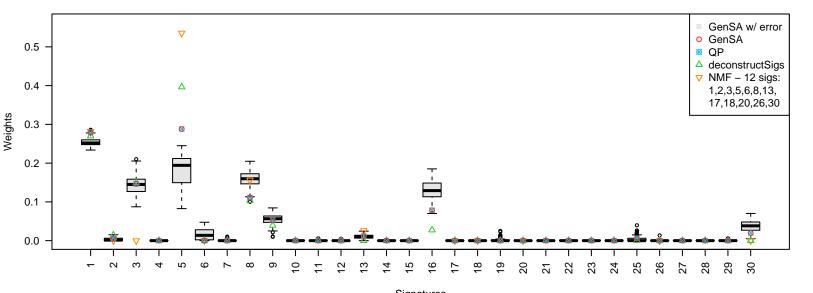
Signatures
GenSA+error(median) 0.01936, GenSA 0.01854, QP 0.01854, deconstructSigs 0.01881, NMF 0.02347

### PD11818(optimal GSA error \* 1.05)



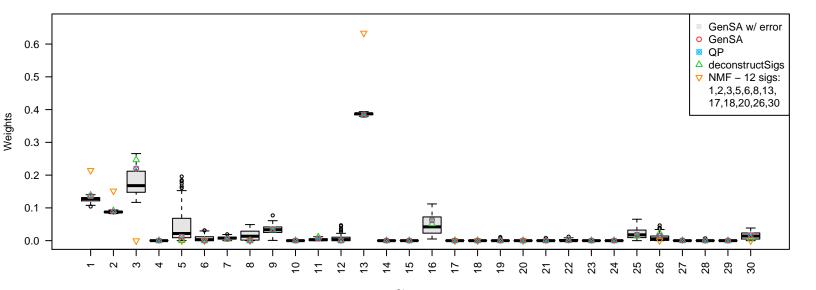
Signatures
GenSA+error(median) 0.02541, GenSA 0.02441, QP 0.02441, deconstructSigs 0.02778, NMF 0.03051

## PD11819(optimal GSA error \* 1.05)



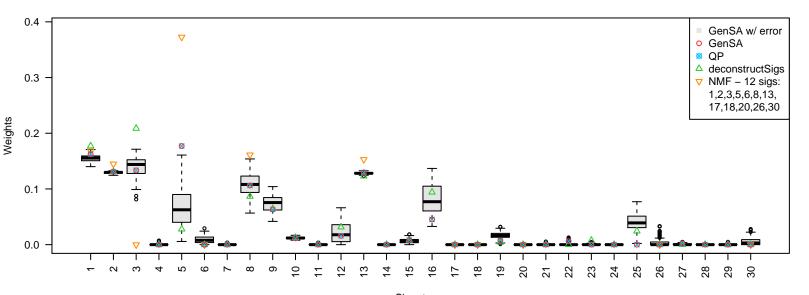
Signatures
GenSA+error(median) 0.03349, GenSA 0.03223, QP 0.03223, deconstructSigs 0.03275, NMF 0.03392

### PD13162(optimal GSA error \* 1.05)



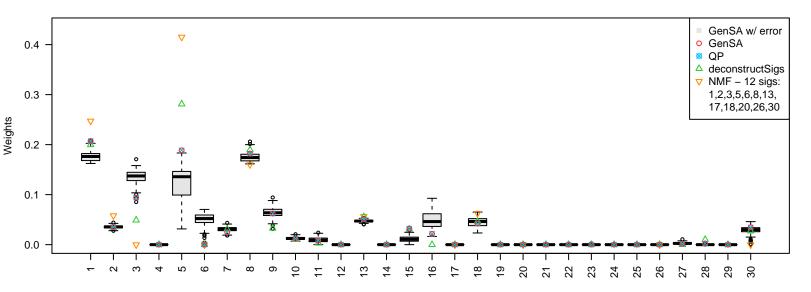
Signatures
GenSA+error(median) 0.01712, GenSA 0.01638, QP 0.01638, deconstructSigs 0.01650, NMF 0.12423

### PD13163(optimal GSA error \* 1.05)



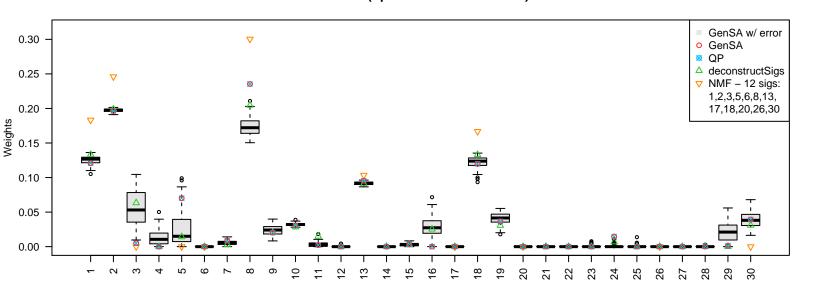
Signatures
GenSA+error(median) 0.01997, GenSA 0.01913, QP 0.01913, deconstructSigs 0.01955, NMF 0.02440

## PD13164(optimal GSA error \* 1.05)



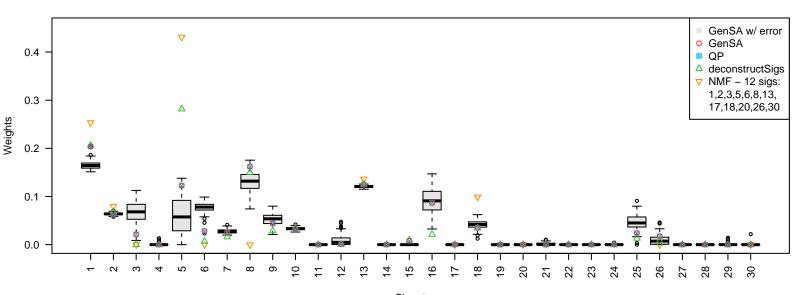
Signatures
GenSA+error(median) 0.02525, GenSA 0.02421, QP 0.02421, deconstructSigs 0.02444, NMF 0.02967

### PD13165(optimal GSA error \* 1.05)



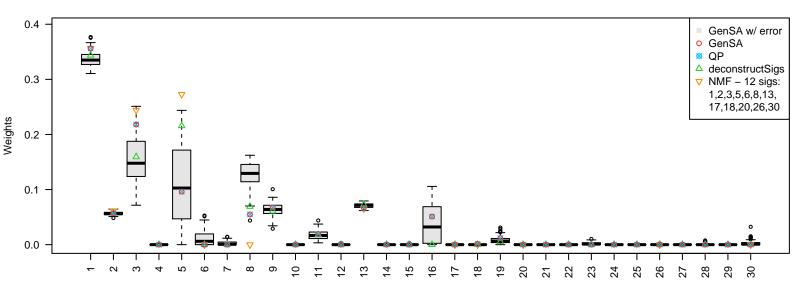
Signatures
GenSA+error(median) 0.01654, GenSA 0.01583, QP 0.01583, deconstructSigs 0.01620, NMF 0.03275

### PD13166(optimal GSA error \* 1.05)



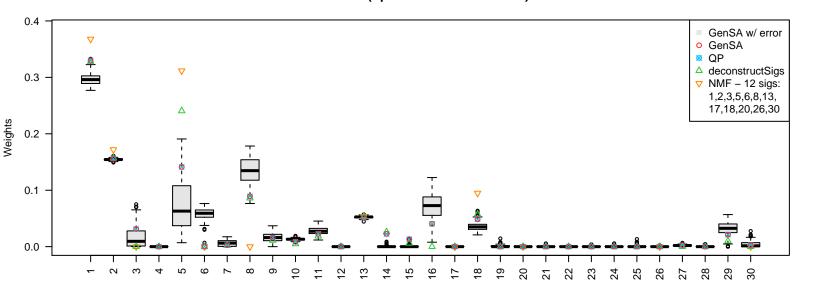
 $Signatures \\ GenSA+error(median)~0.02573,~GenSA~0.02467,~QP~0.02467,~deconstructSigs~0.02503,~NMF~0.03196$ 

# PD13167(optimal GSA error \* 1.05)



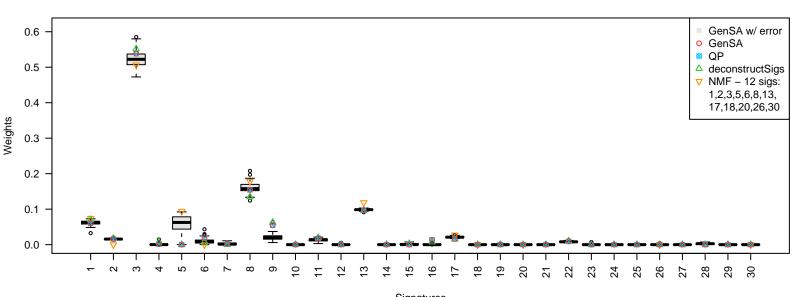
Signatures
GenSA+error(median) 0.02624, GenSA 0.02522, QP 0.02522, deconstructSigs 0.02542, NMF 0.02678

### PD13168(optimal GSA error \* 1.05)



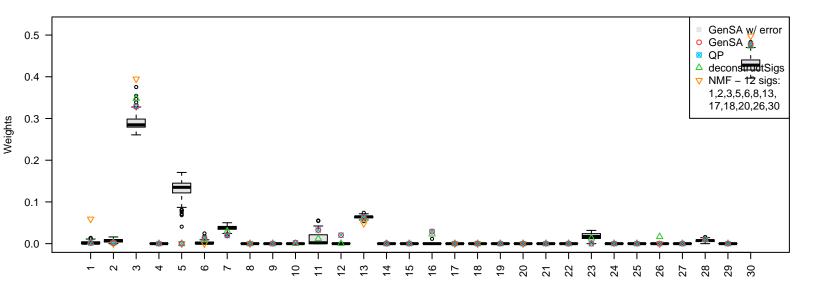
Signatures
GenSA+error(median) 0.02045, GenSA 0.01962, QP 0.01962, deconstructSigs 0.01985, NMF 0.02422

### PD13296(optimal GSA error \* 1.05)



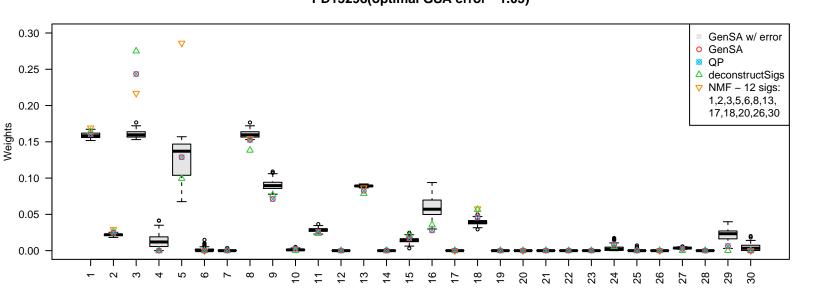
Signatures
GenSA+error(median) 0.01489, GenSA 0.01425, QP 0.01425, deconstructSigs 0.01435, NMF 0.01890

### PD13297(optimal GSA error \* 1.05)



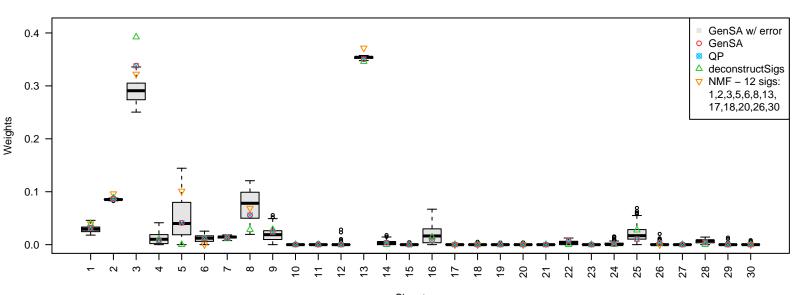
Signatures
GenSA+error(median) 0.02629, GenSA 0.02527, QP 0.02527, deconstructSigs 0.02552, NMF 0.03094

# PD13298(optimal GSA error \* 1.05)



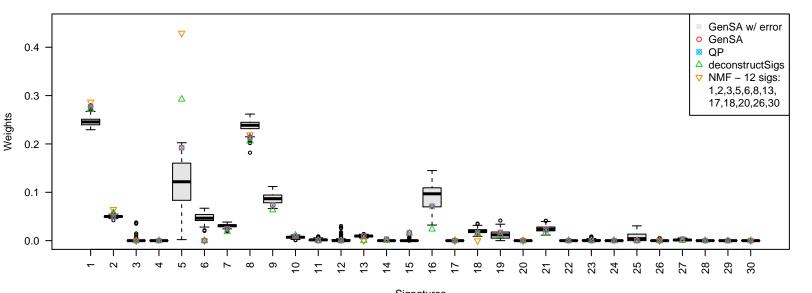
Signatures
GenSA+error(median) 0.02020, GenSA 0.01934, QP 0.01934, deconstructSigs 0.01948, NMF 0.02169

### PD13299(optimal GSA error \* 1.05)



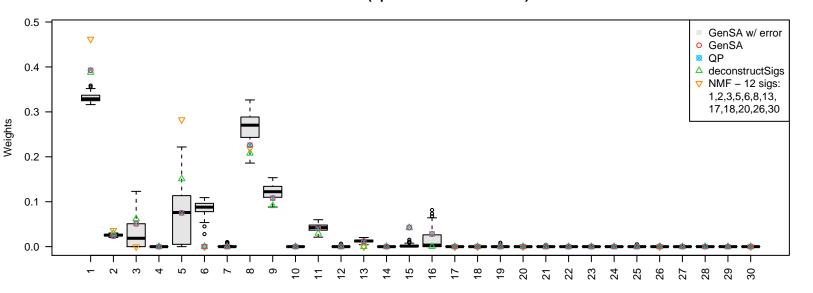
 $Signatures \\ GenSA+error(median)~0.01326,~GenSA~0.01270,~QP~0.01270,~deconstructSigs~0.01303,~NMF~0.01749$ 

# PD13302(optimal GSA error \* 1.05)



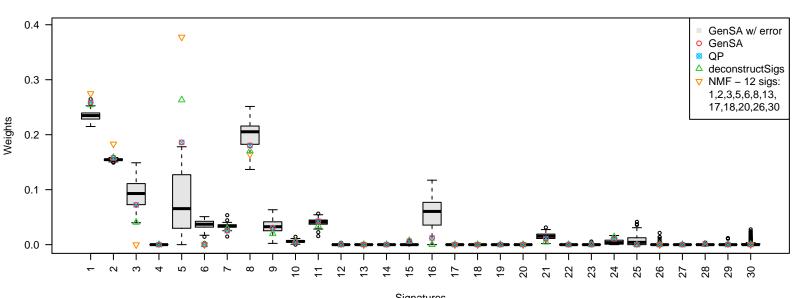
Signatures
GenSA+error(median) 0.02363, GenSA 0.02276, QP 0.02276, deconstructSigs 0.02333, NMF 0.02610

### PD13304(optimal GSA error \* 1.05)



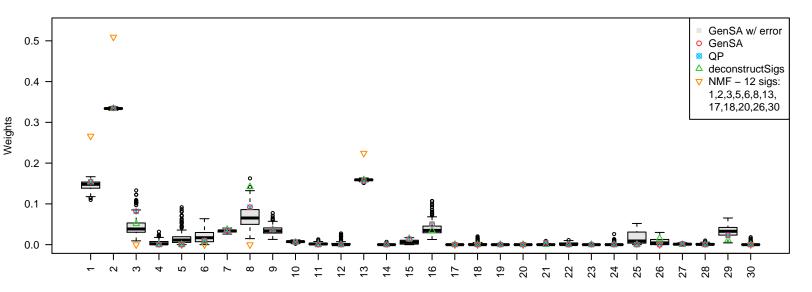
Signatures
GenSA+error(median) 0.03309, GenSA 0.03170, QP 0.03170, deconstructSigs 0.03218, NMF 0.03843

### PD13306(optimal GSA error \* 1.05)



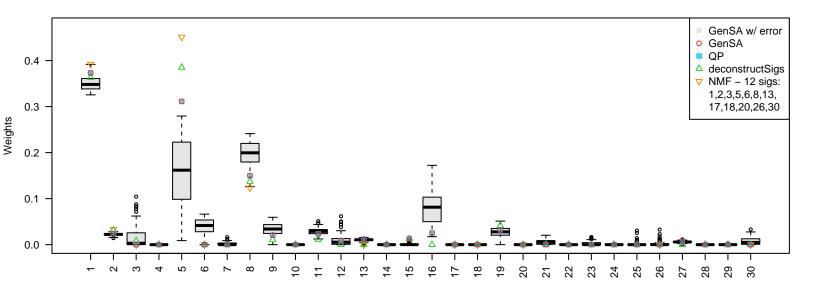
 $Signatures \\ GenSA+error(median)~0.02264,~GenSA~0.02172,~QP~0.02172,~deconstructSigs~0.02191,~NMF~0.02797$ 

## PD13307(optimal GSA error \* 1.05)



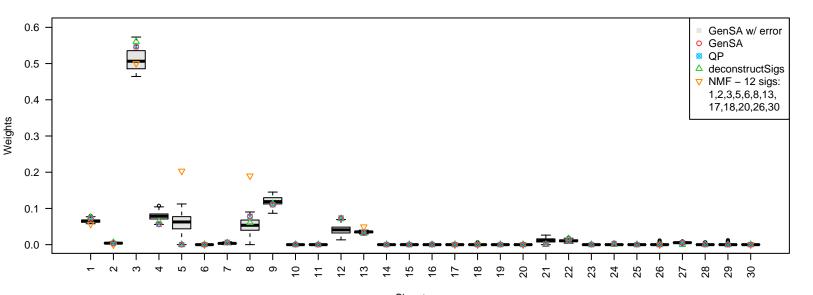
Signatures
GenSA+error(median) 0.01995, GenSA 0.01909, QP 0.01909, deconstructSigs 0.01936, NMF 0.10036

# PD13310(optimal GSA error \* 1.05)



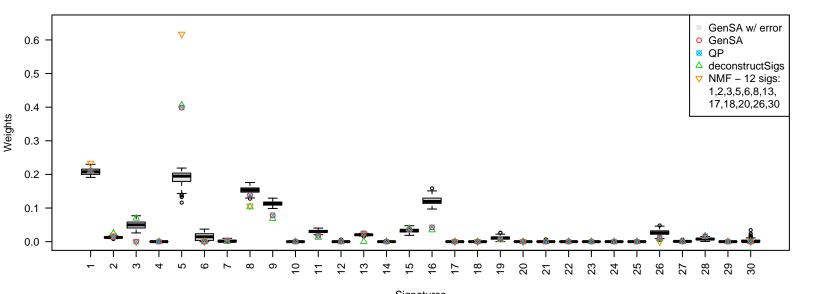
Signatures
GenSA+error(median) 0.02945, GenSA 0.02820, QP 0.02820, deconstructSigs 0.02885, NMF 0.03041

### **PD13311(optimal GSA error \* 1.05)**



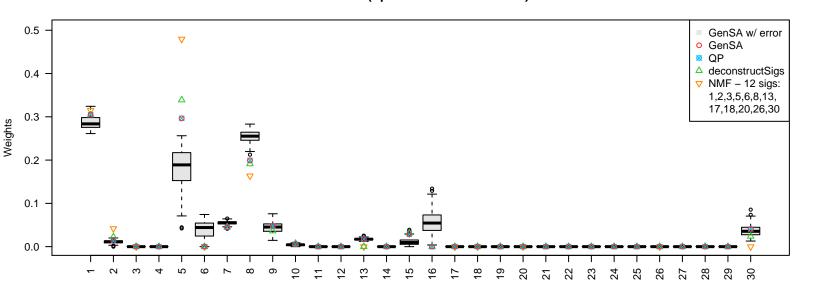
Signatures
GenSA+error(median) 0.01843, GenSA 0.01764, QP 0.01764, deconstructSigs 0.01778, NMF 0.02365

### **PD13312(optimal GSA error \* 1.05)**



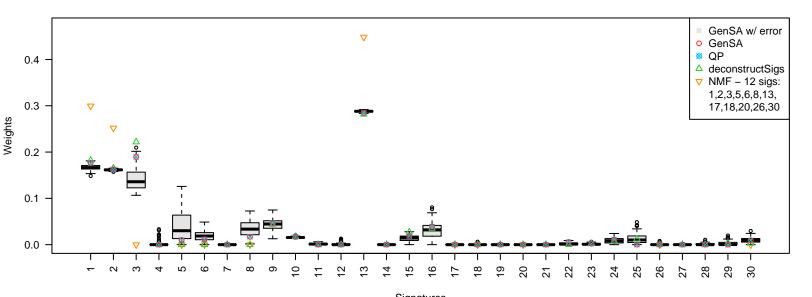
Signatures
GenSA+error(median) 0.02357, GenSA 0.02262, QP 0.02262, deconstructSigs 0.02444, NMF 0.02654

### PD13416(optimal GSA error \* 1.05)



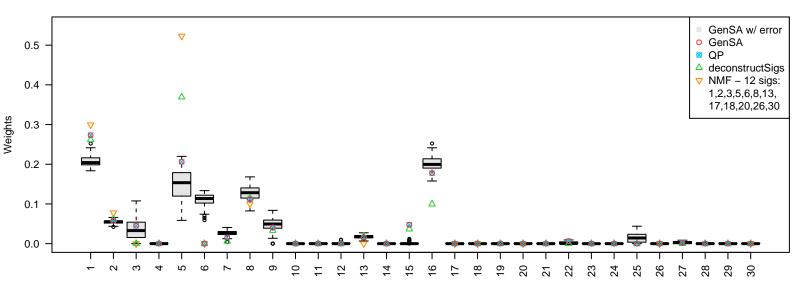
Signatures
GenSA+error(median) 0.02800, GenSA 0.02681, QP 0.02681, deconstructSigs 0.02783, NMF 0.03259

### PD13418(optimal GSA error \* 1.05)



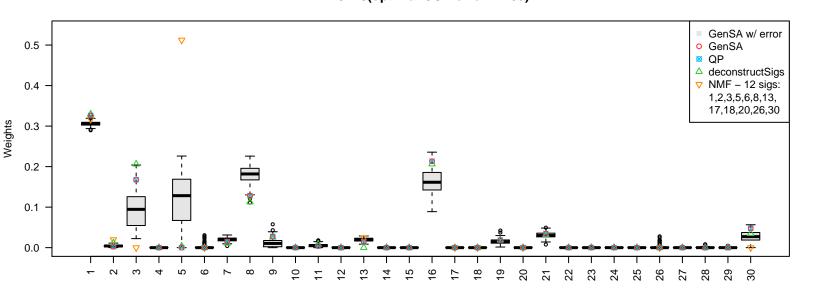
Signatures
GenSA+error(median) 0.01315, GenSA 0.01259, QP 0.01259, deconstructSigs 0.01278, NMF 0.09952

## PD13419(optimal GSA error \* 1.05)



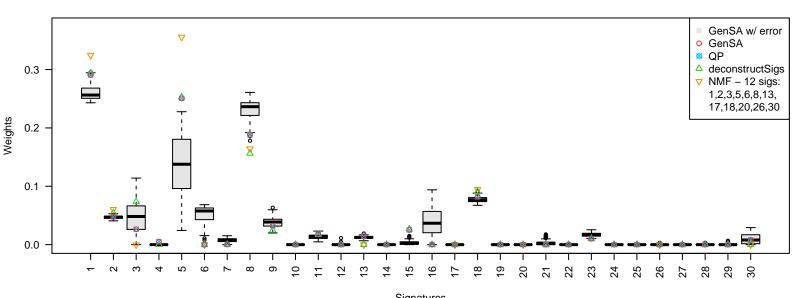
Signatures
GenSA+error(median) 0.03614, GenSA 0.03467, QP 0.03467, deconstructSigs 0.03500, NMF 0.03839

# PD13420(optimal GSA error \* 1.05)



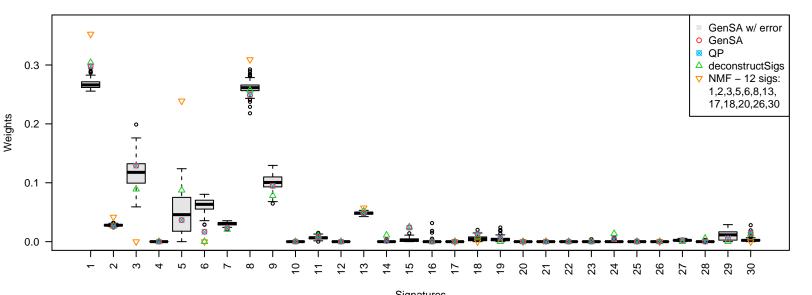
Signatures
GenSA+error(median) 0.02625, GenSA 0.02512, QP 0.02512, deconstructSigs 0.02566, NMF 0.02905

### PD13422(optimal GSA error \* 1.05)



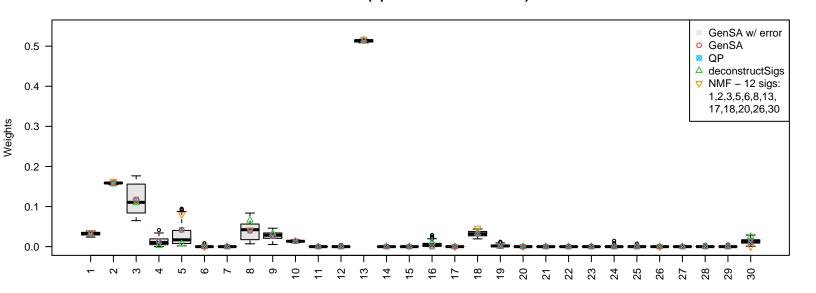
Signatures
GenSA+error(median) 0.02656, GenSA 0.02540, QP 0.02540, deconstructSigs 0.02591, NMF 0.02881

## PD13424(optimal GSA error \* 1.05)



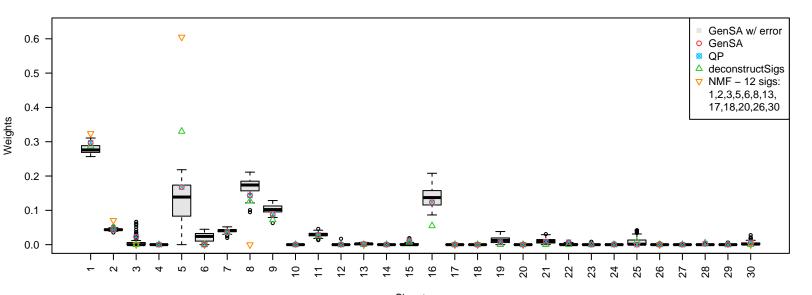
Signatures
GenSA+error(median) 0.01806, GenSA 0.01735, QP 0.01735, deconstructSigs 0.01758, NMF 0.02496

### PD13425(optimal GSA error \* 1.05)



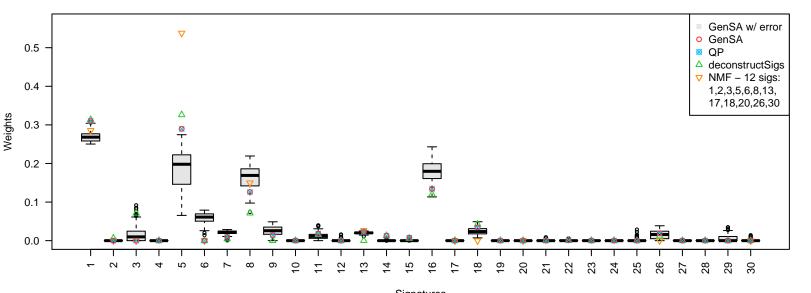
Signatures
GenSA+error(median) 0.00917, GenSA 0.00876, QP 0.00876, deconstructSigs 0.00908, NMF 0.01065

# PD13426(optimal GSA error \* 1.05)



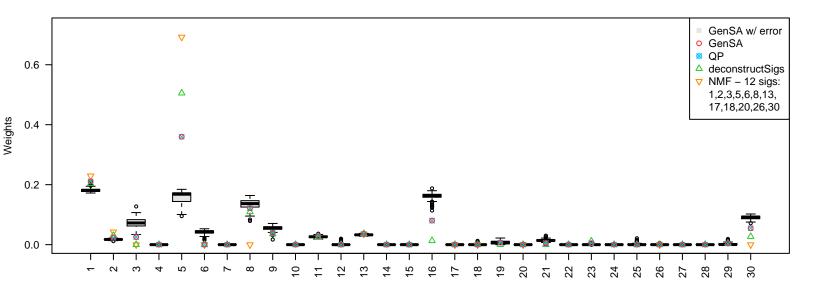
Signatures
GenSA+error(median) 0.02392, GenSA 0.02301, QP 0.02301, deconstructSigs 0.02341, NMF 0.03153

# PD13427(optimal GSA error \* 1.05)



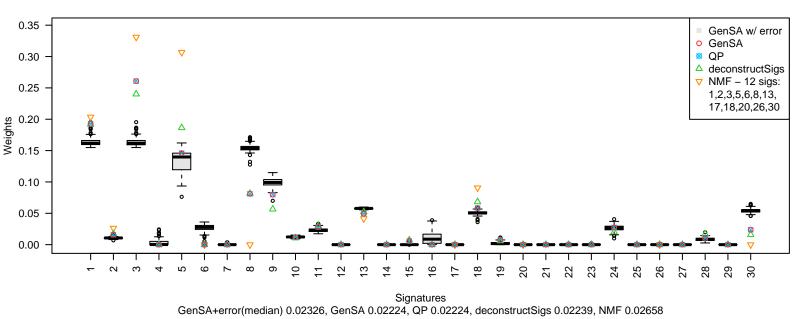
Signatures
GenSA+error(median) 0.03180, GenSA 0.03053, QP 0.03053, deconstructSigs 0.03197, NMF 0.03268

### PD13428(optimal GSA error \* 1.05)

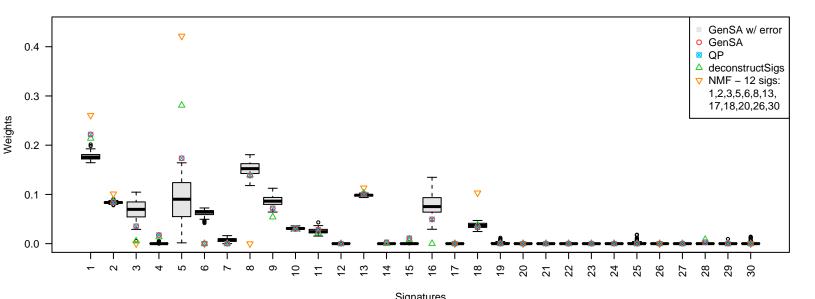


Signatures
GenSA+error(median) 0.02399, GenSA 0.02297, QP 0.02297, deconstructSigs 0.02324, NMF 0.02801

# PD13602(optimal GSA error \* 1.05)

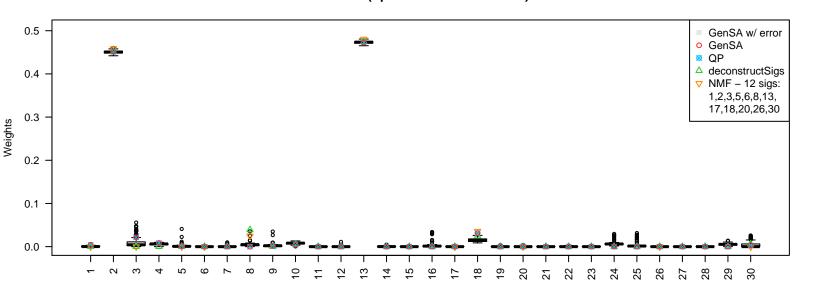


# PD13603(optimal GSA error \* 1.05)



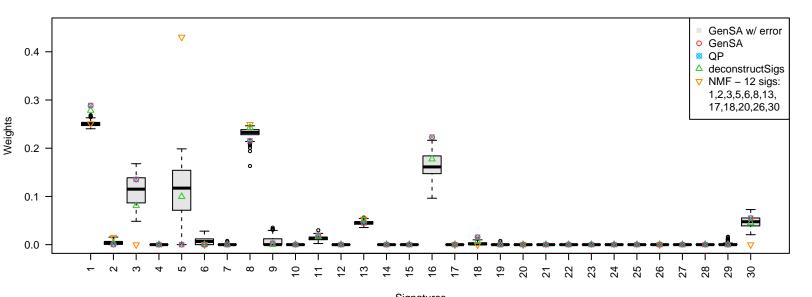
Signatures
GenSA+error(median) 0.02301, GenSA 0.02202, QP 0.02202, deconstructSigs 0.02221, NMF 0.03096

### PD13604(optimal GSA error \* 1.05)



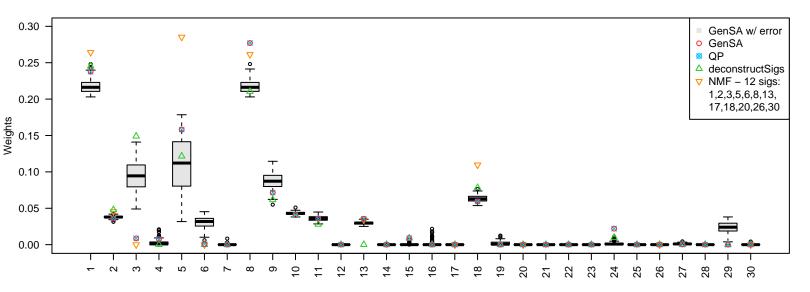
Signatures GenSA+error(median) 0.01455, GenSA 0.01396, QP 0.01396, deconstructSigs 0.01417, NMF 0.01516

# PD13605(optimal GSA error \* 1.05)



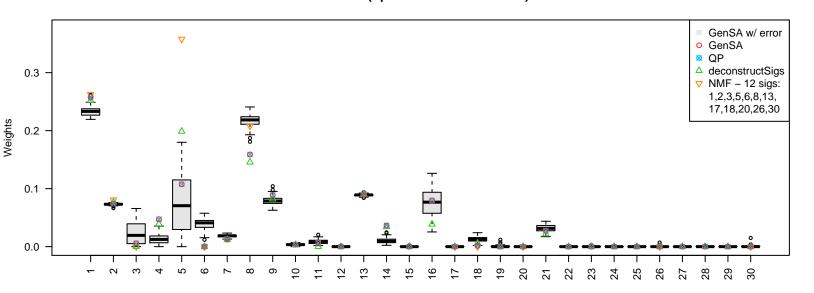
 $Signatures \\ GenSA+error(median)~0.03345,~GenSA~0.03217,~QP~0.03217,~deconstructSigs~0.03251,~NMF~0.03501$ 

# PD13606(optimal GSA error \* 1.05)



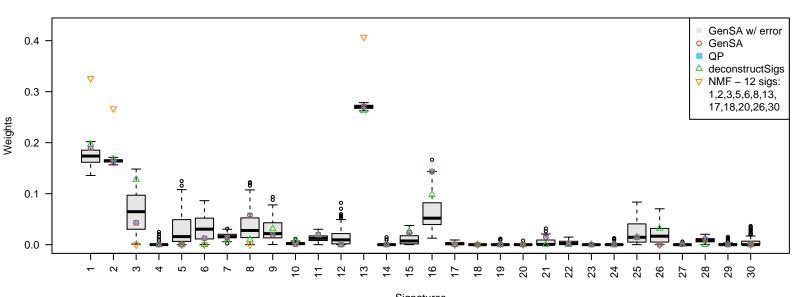
Signatures
GenSA+error(median) 0.02415, GenSA 0.02313, QP 0.02313, deconstructSigs 0.02628, NMF 0.02934

### PD13607(optimal GSA error \* 1.05)



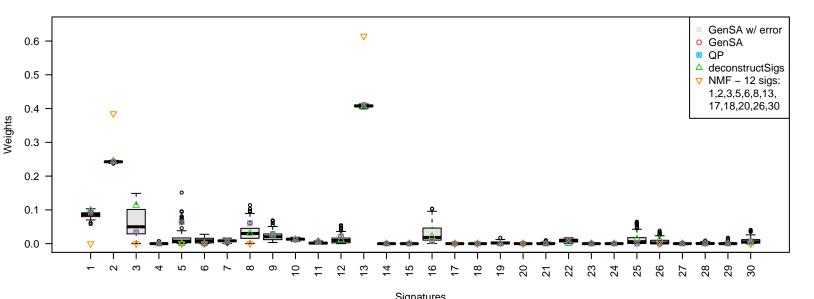
Signatures
GenSA+error(median) 0.02104, GenSA 0.02014, QP 0.02014, deconstructSigs 0.02031, NMF 0.02378

# PD13608(optimal GSA error \* 1.05)



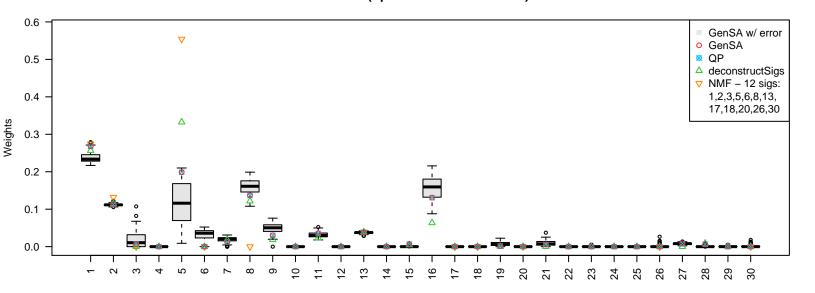
 $Signatures \\ GenSA+error(median)~0.02606,~GenSA~0.02496,~QP~0.02496,~deconstructSigs~0.02554,~NMF~0.09816$ 

# PD13609(optimal GSA error \* 1.05)



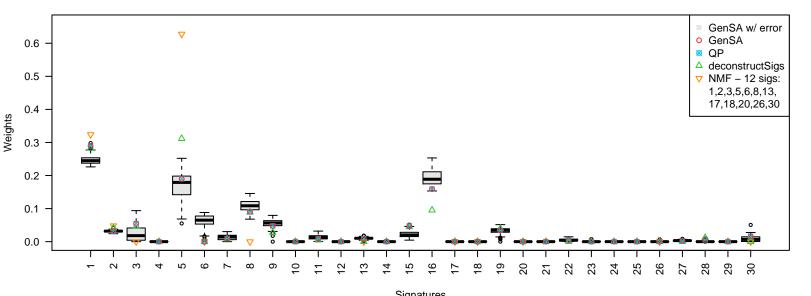
Signatures
GenSA+error(median) 0.01841, GenSA 0.01761, QP 0.01761, deconstructSigs 0.01817, NMF 0.13583

### PD13618(optimal GSA error \* 1.05)



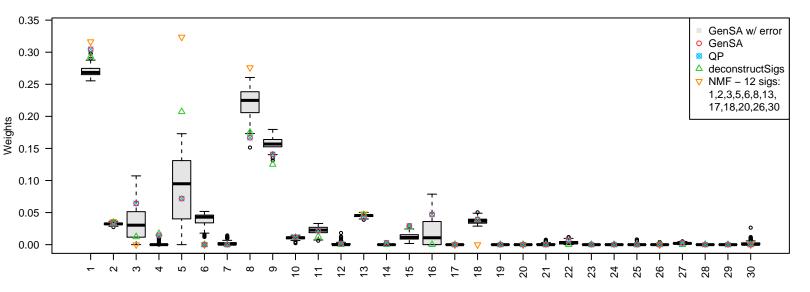
Signatures
GenSA+error(median) 0.02792, GenSA 0.02683, QP 0.02683, deconstructSigs 0.02728, NMF 0.03126

# PD13619(optimal GSA error \* 1.05)



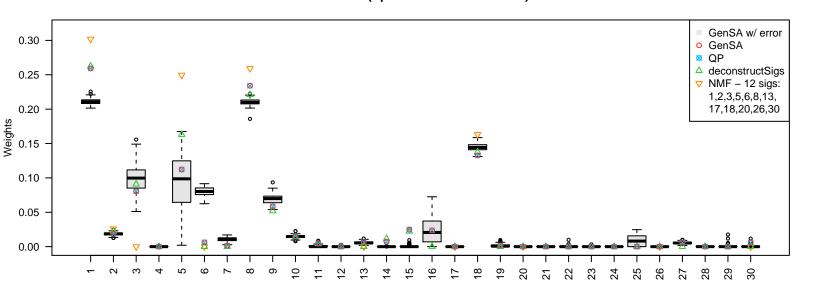
Signatures
GenSA+error(median) 0.02968, GenSA 0.02849, QP 0.02849, deconstructSigs 0.02900, NMF 0.03372

# PD13620(optimal GSA error \* 1.05)



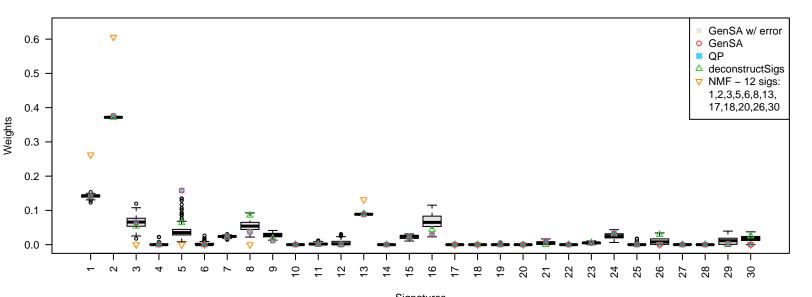
Signatures
GenSA+error(median) 0.02695, GenSA 0.02583, QP 0.02583, deconstructSigs 0.02613, NMF 0.03181

### PD13622(optimal GSA error \* 1.05)



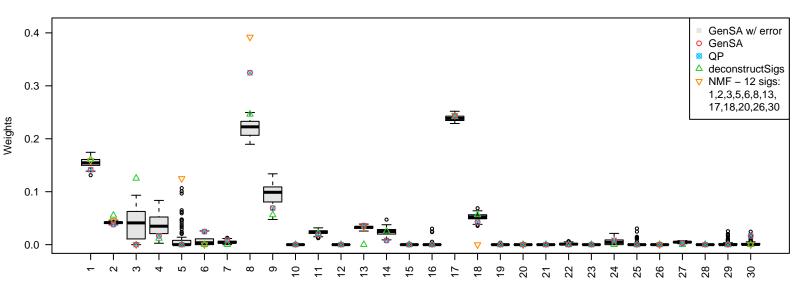
Signatures
GenSA+error(median) 0.02428, GenSA 0.02326, QP 0.02326, deconstructSigs 0.02358, NMF 0.02735

# PD13623(optimal GSA error \* 1.05)



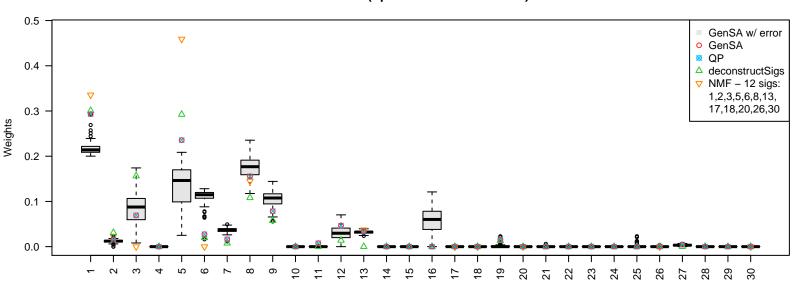
Signatures
GenSA+error(median) 0.01585, GenSA 0.01516, QP 0.01516, deconstructSigs 0.01577, NMF 0.12083

# PD13625(optimal GSA error \* 1.05)



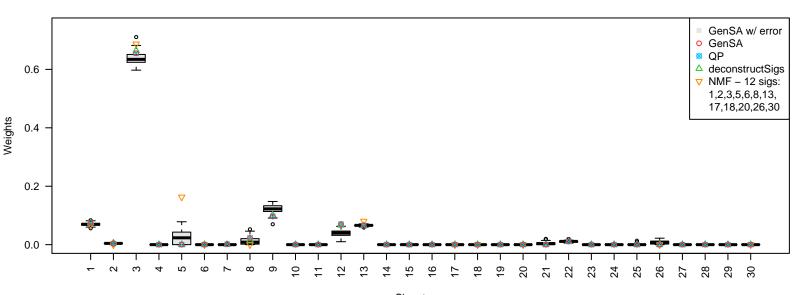
Signatures
GenSA+error(median) 0.02450, GenSA 0.02348, QP 0.02348, deconstructSigs 0.02693, NMF 0.02772

### PD13626(optimal GSA error \* 1.05)



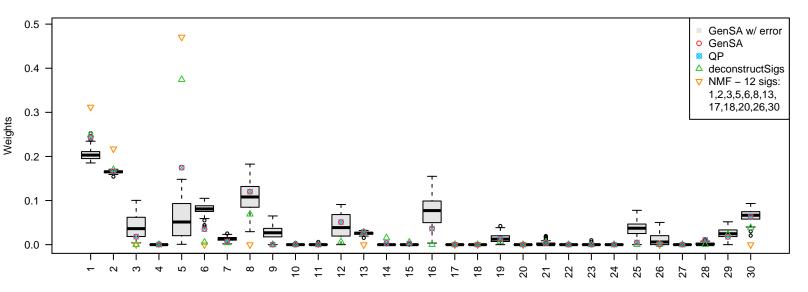
Signatures
GenSA+error(median) 0.04139, GenSA 0.03961, QP 0.03961, deconstructSigs 0.04157, NMF 0.04141

# PD13627(optimal GSA error \* 1.05)



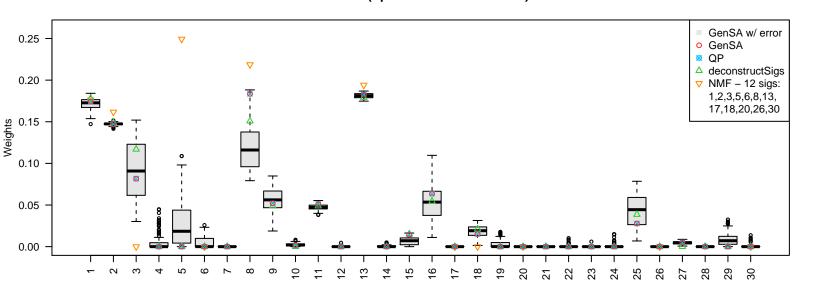
Signatures
GenSA+error(median) 0.01964, GenSA 0.01888, QP 0.01888, deconstructSigs 0.01891, NMF 0.02476

# PD13629(optimal GSA error \* 1.05)



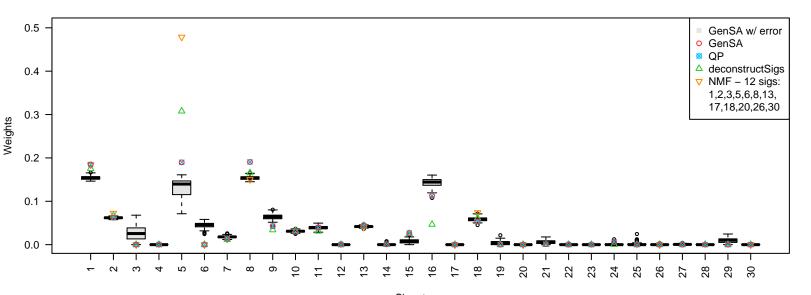
Signatures
GenSA+error(median) 0.02724, GenSA 0.02611, QP 0.02611, deconstructSigs 0.02672, NMF 0.03541

### PD13630(optimal GSA error \* 1.05)



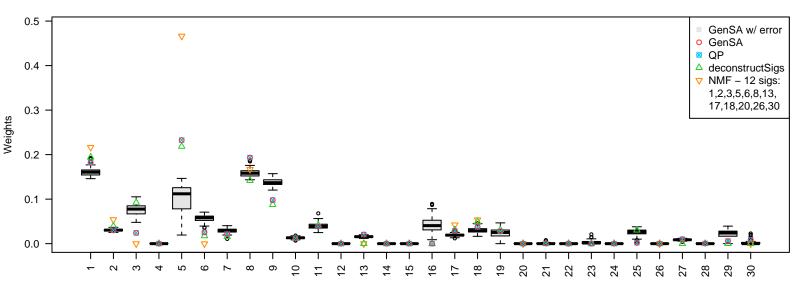
Signatures
GenSA+error(median) 0.02002, GenSA 0.01917, QP 0.01917, deconstructSigs 0.01940, NMF 0.02429

# PD13631(optimal GSA error \* 1.05)



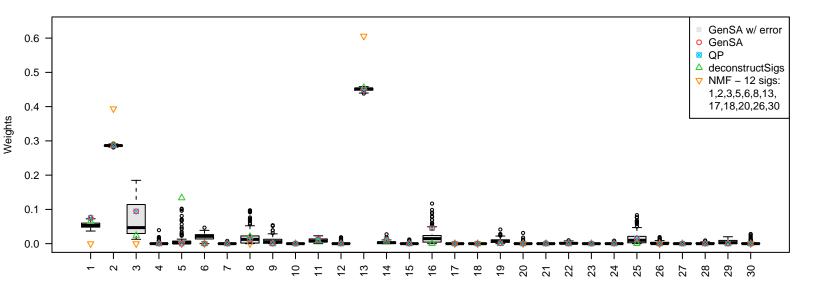
 $Signatures \\ GenSA+error(median)~0.02912,~GenSA~0.02789,~QP~0.02789,~deconstructSigs~0.02819,~NMF~0.03302$ 

# **PD13752(optimal GSA error \* 1.05)**



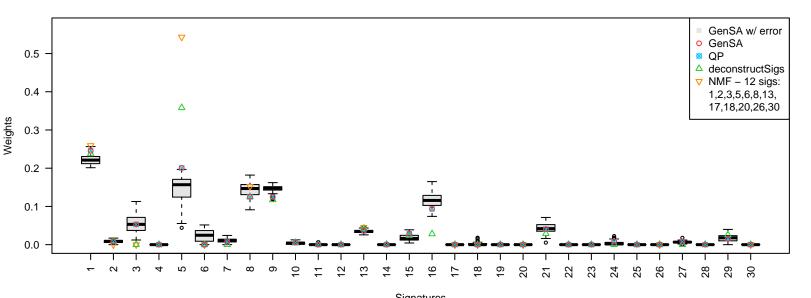
Signatures
GenSA+error(median) 0.02212, GenSA 0.02119, QP 0.02119, deconstructSigs 0.02262, NMF 0.03002

### PD13753(optimal GSA error \* 1.05)



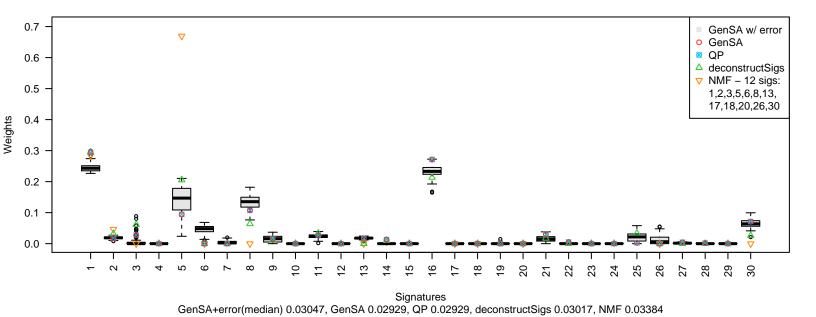
Signatures
GenSA+error(median) 0.02403, GenSA 0.02300, QP 0.02300, deconstructSigs 0.02424, NMF 0.10401

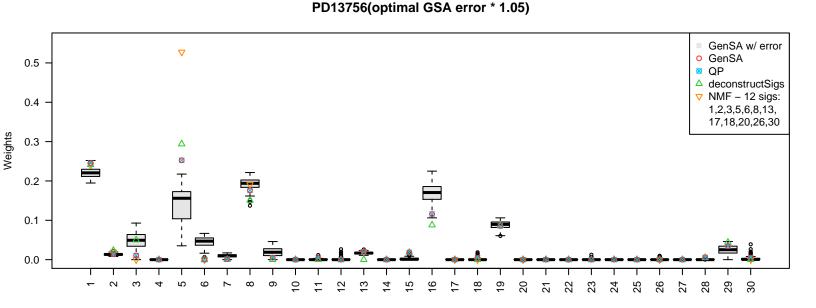
# PD13754(optimal GSA error \* 1.05)



 $Signatures \\ GenSA+error(median)~0.03196,~GenSA~0.03073,~QP~0.03073,~deconstructSigs~0.03112,~NMF~0.03513$ 

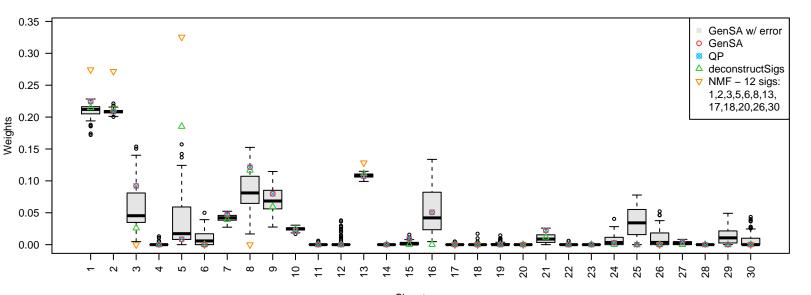
# PD13755(optimal GSA error \* 1.05)





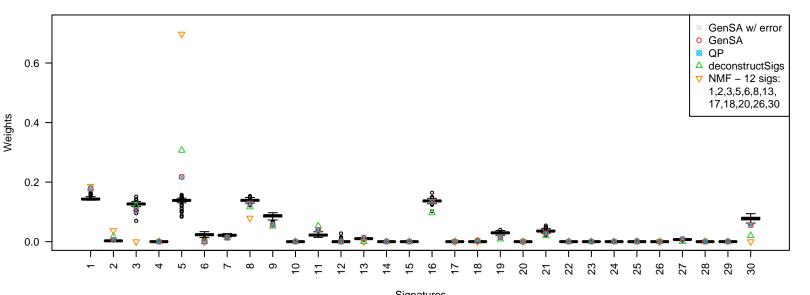
Signatures
GenSA+error(median) 0.02609, GenSA 0.02505, QP 0.02505, deconstructSigs 0.02624, NMF 0.02947

# **PD13757(optimal GSA error \* 1.05)**



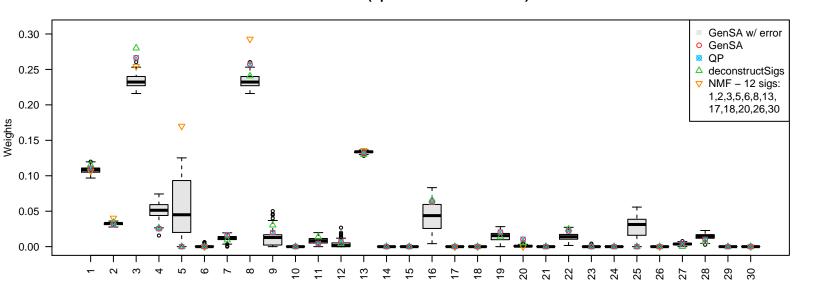
Signatures
GenSA+error(median) 0.02865, GenSA 0.02745, QP 0.02745, deconstructSigs 0.02791, NMF 0.04538

# PD13758(optimal GSA error \* 1.05)



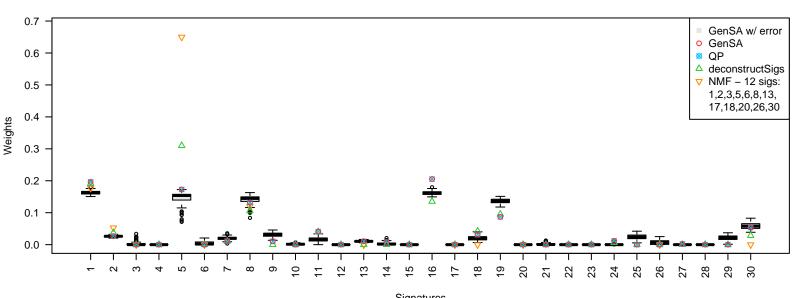
Signatures
GenSA+error(median) 0.02500, GenSA 0.02391, QP 0.02391, deconstructSigs 0.02470, NMF 0.03099

### PD13760(optimal GSA error \* 1.05)



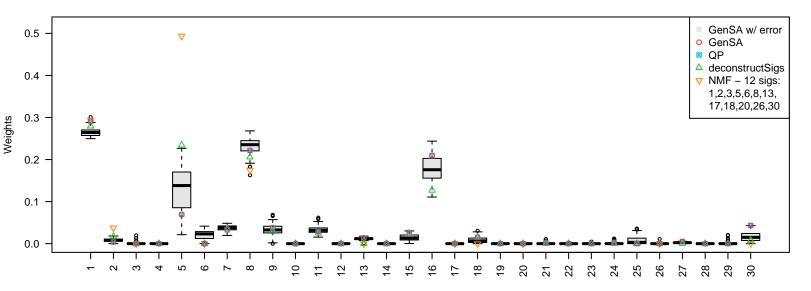
Signatures
GenSA+error(median) 0.01672, GenSA 0.01602, QP 0.01602, deconstructSigs 0.01621, NMF 0.01941

# **PD13761(optimal GSA error \* 1.05)**



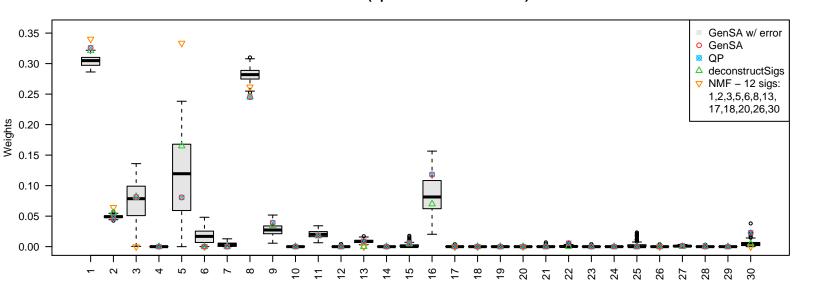
Signatures
GenSA+error(median) 0.03074, GenSA 0.02946, QP 0.02946, deconstructSigs 0.03009, NMF 0.04016

# PD13762(optimal GSA error \* 1.05)



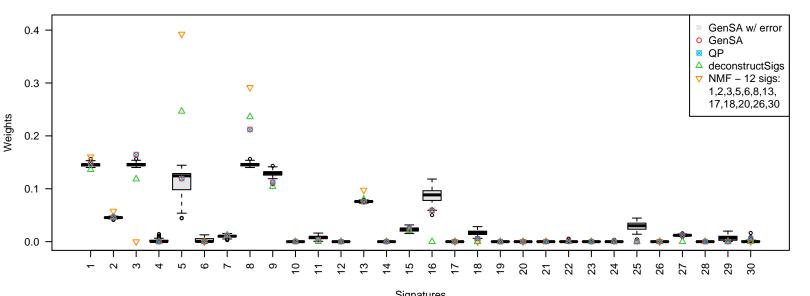
Signatures
GenSA+error(median) 0.02897, GenSA 0.02785, QP 0.02785, deconstructSigs 0.02883, NMF 0.03374

### PD13763(optimal GSA error \* 1.05)



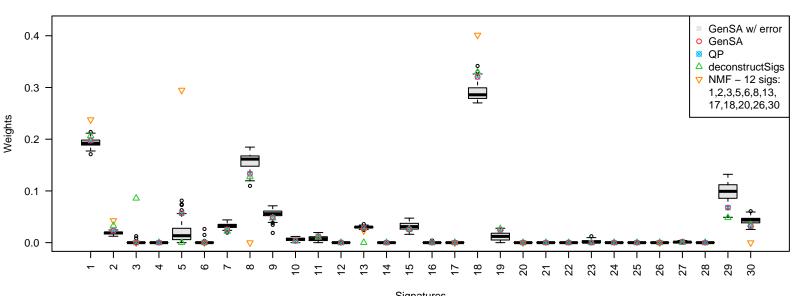
Signatures
GenSA+error(median) 0.02296, GenSA 0.02204, QP 0.02204, deconstructSigs 0.02255, NMF 0.02527

# PD13764(optimal GSA error \* 1.05)



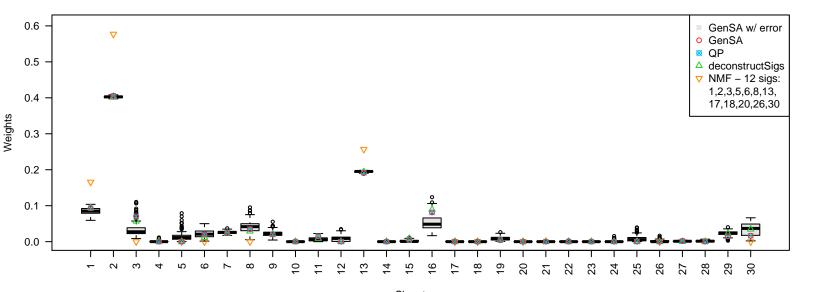
Signatures
GenSA+error(median) 0.02185, GenSA 0.02093, QP 0.02093, deconstructSigs 0.02160, NMF 0.02703

# **PD13765(optimal GSA error \* 1.05)**



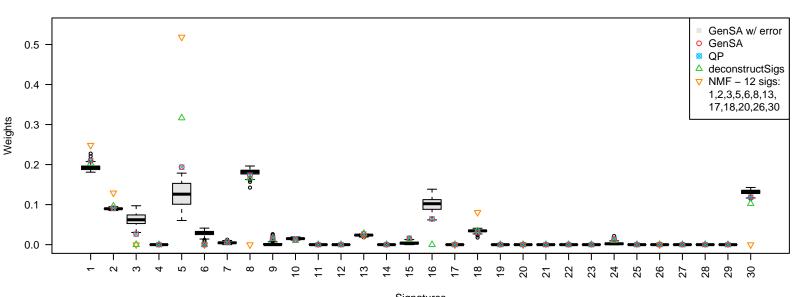
Signatures
GenSA+error(median) 0.02267, GenSA 0.02181, QP 0.02181, deconstructSigs 0.02426, NMF 0.02905

### PD13766(optimal GSA error \* 1.05)



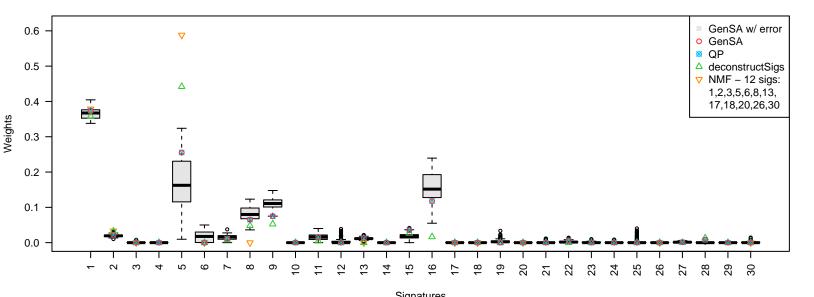
Signatures
GenSA+error(median) 0.01626, GenSA 0.01555, QP 0.01555, deconstructSigs 0.01571, NMF 0.09449

# PD13767(optimal GSA error \* 1.05)



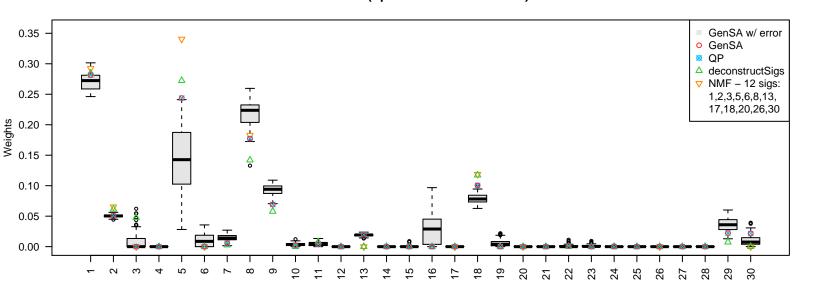
Signatures
GenSA+error(median) 0.01845, GenSA 0.01767, QP 0.01767, deconstructSigs 0.01793, NMF 0.02660

# PD13768(optimal GSA error \* 1.05)



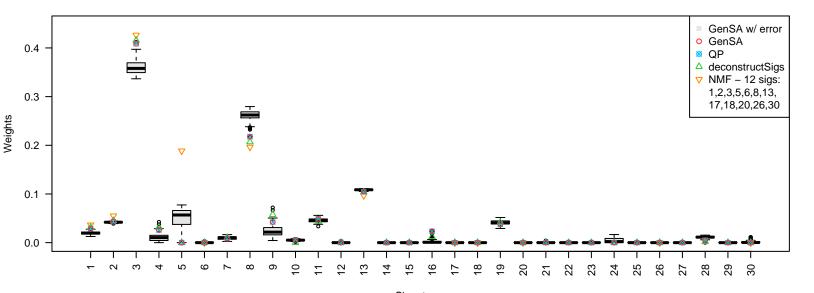
Signatures
GenSA+error(median) 0.03283, GenSA 0.03158, QP 0.03158, deconstructSigs 0.03259, NMF 0.03475

### **PD13770(optimal GSA error \* 1.05)**



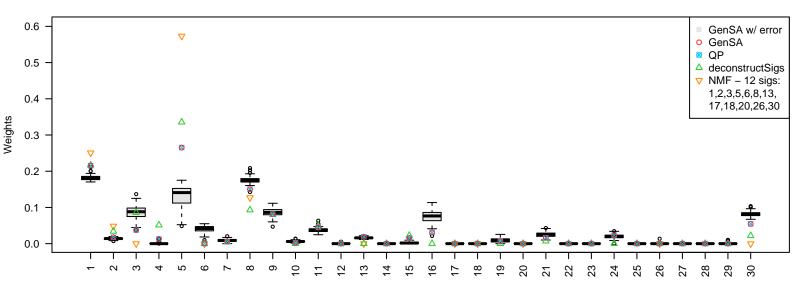
Signatures
GenSA+error(median) 0.02612, GenSA 0.02504, QP 0.02504, deconstructSigs 0.02618, NMF 0.02732

# **PD13771(optimal GSA error \* 1.05)**



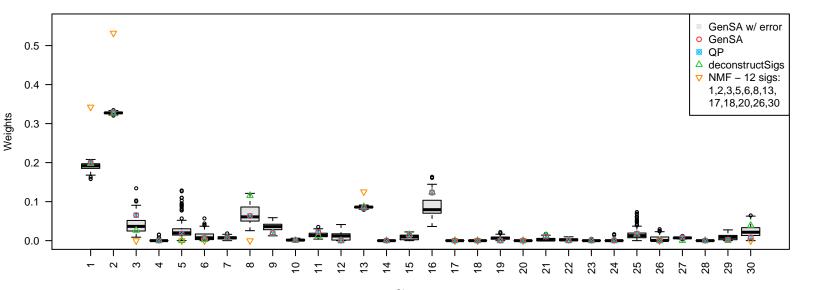
 $Signatures \\ GenSA+error(median)~0.01329,~GenSA~0.01271,~QP~0.01271,~deconstructSigs~0.01294,~NMF~0.02240$ 

# PD14432(optimal GSA error \* 1.05)



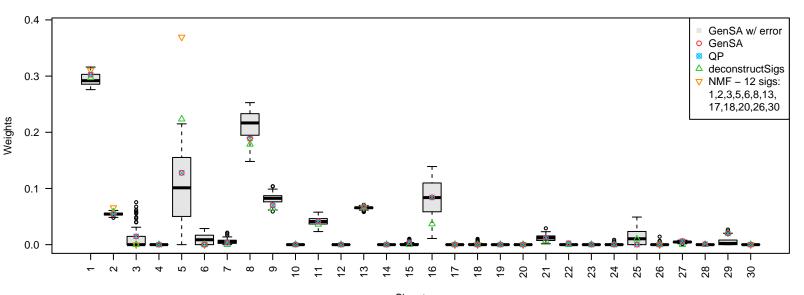
Signatures
GenSA+error(median) 0.02789, GenSA 0.02674, QP 0.02674, deconstructSigs 0.02789, NMF 0.03450

### PD14433(optimal GSA error \* 1.05)



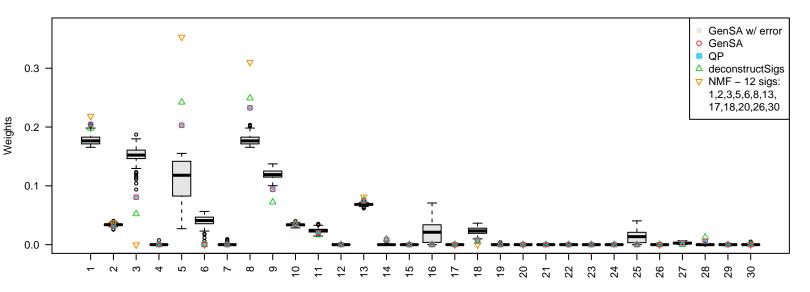
Signatures
GenSA+error(median) 0.01898, GenSA 0.01818, QP 0.01818, deconstructSigs 0.01873, NMF 0.11047

# PD14435(optimal GSA error \* 1.05)



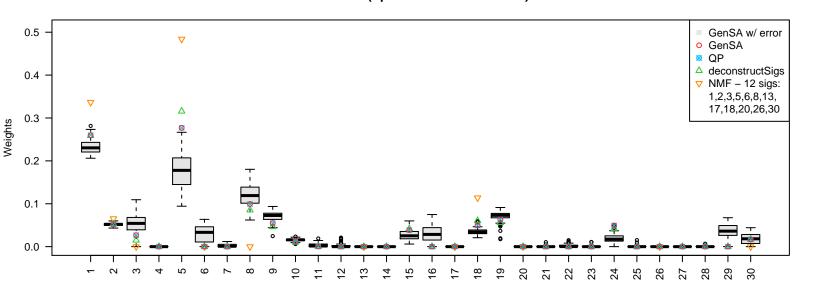
Signatures
GenSA+error(median) 0.01874, GenSA 0.01803, QP 0.01803, deconstructSigs 0.01839, NMF 0.02171

# PD14437(optimal GSA error \* 1.05)



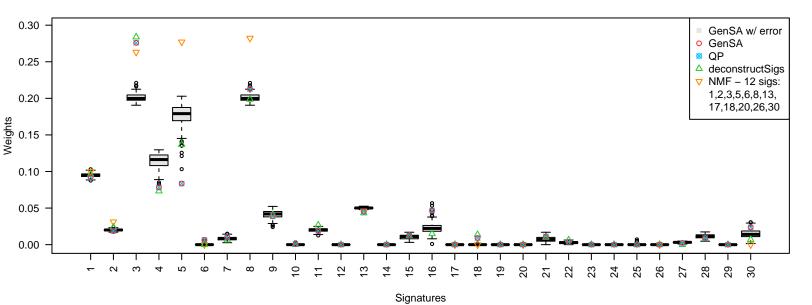
Signatures
GenSA+error(median) 0.02563, GenSA 0.02459, QP 0.02459, deconstructSigs 0.02473, NMF 0.03080

# PD14439(optimal GSA error \* 1.05)



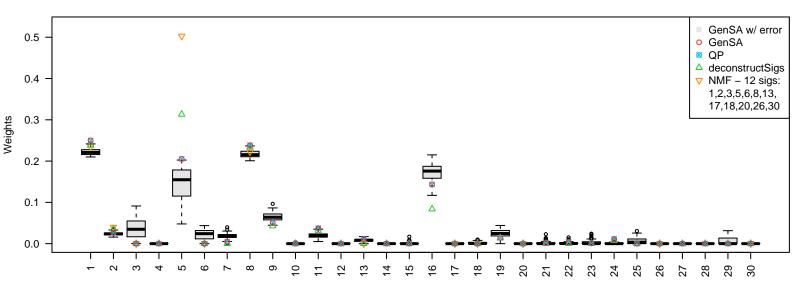
Signatures
GenSA+error(median) 0.03473, GenSA 0.03332, QP 0.03332, deconstructSigs 0.03341, NMF 0.03971

# PD14441(optimal GSA error \* 1.05)



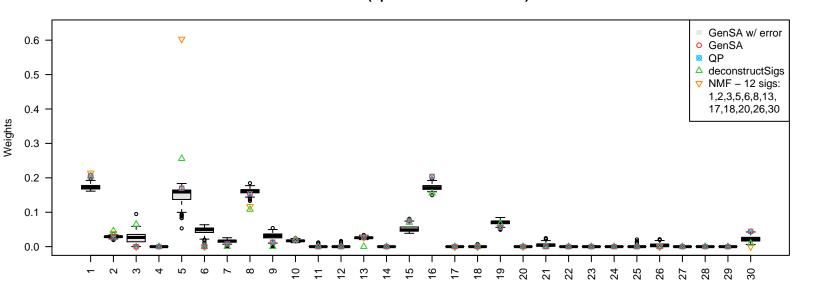
GenSA+error(median) 0.01540, GenSA 0.01477, QP 0.01477, deconstructSigs 0.01496, NMF 0.01996

# PD14442(optimal GSA error \* 1.05)



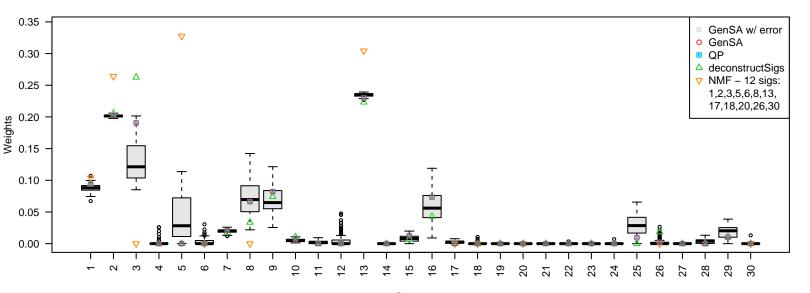
Signatures
GenSA+error(median) 0.03138, GenSA 0.03009, QP 0.03009, deconstructSigs 0.03069, NMF 0.03260

# PD14450(optimal GSA error \* 1.05)



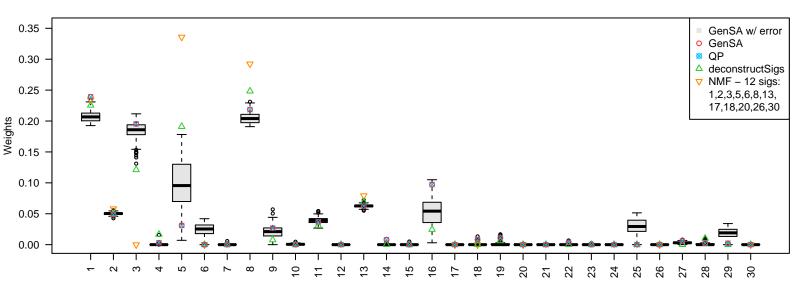
Signatures
GenSA+error(median) 0.03472, GenSA 0.03329, QP 0.03329, deconstructSigs 0.03513, NMF 0.03987

# PD14453(optimal GSA error \* 1.05)



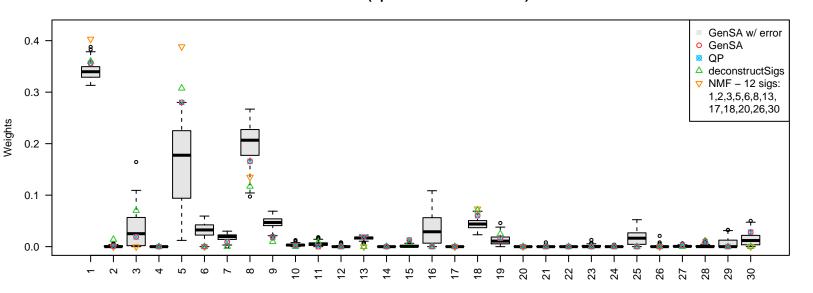
Signatures
GenSA+error(median) 0.02071, GenSA 0.01981, QP 0.01981, deconstructSigs 0.02032, NMF 0.05366

# PD14454(optimal GSA error \* 1.05)



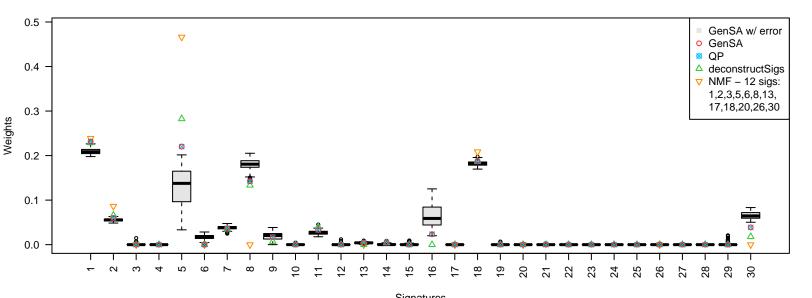
Signatures
GenSA+error(median) 0.02288, GenSA 0.02198, QP 0.02198, deconstructSigs 0.02243, NMF 0.02582

### PD14456(optimal GSA error \* 1.05)



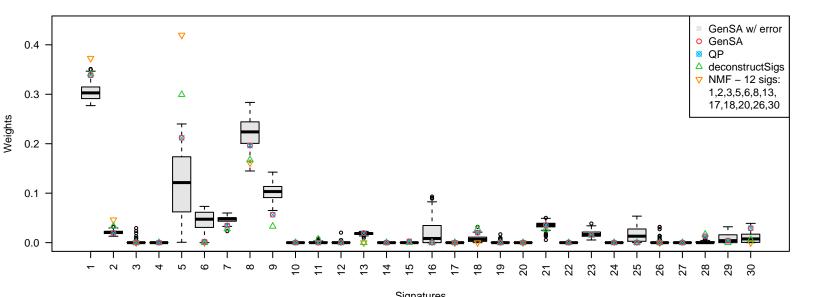
Signatures
GenSA+error(median) 0.02976, GenSA 0.02858, QP 0.02858, deconstructSigs 0.02951, NMF 0.03268

# PD14457(optimal GSA error \* 1.05)



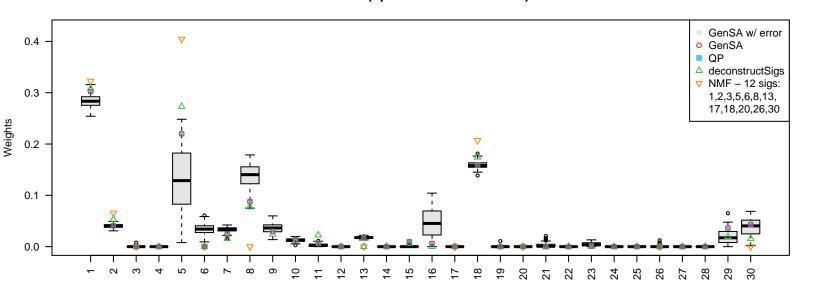
Signatures
GenSA+error(median) 0.02291, GenSA 0.02196, QP 0.02196, deconstructSigs 0.02213, NMF 0.03071

# PD14458(optimal GSA error \* 1.05)



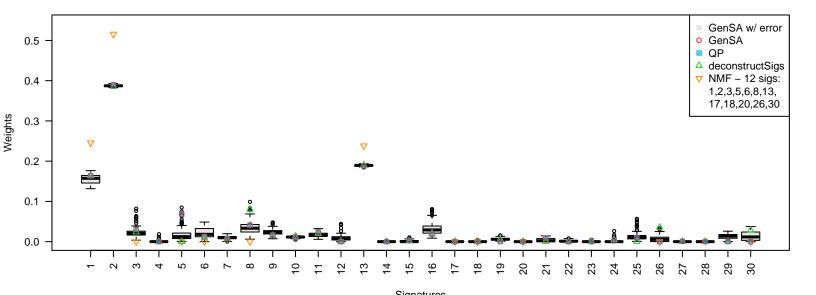
Signatures
GenSA+error(median) 0.02813, GenSA 0.02694, QP 0.02694, deconstructSigs 0.02827, NMF 0.03259

### PD14459(optimal GSA error \* 1.05)



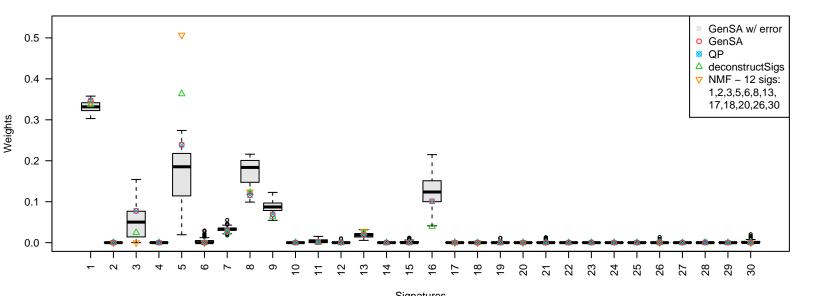
Signatures
GenSA+error(median) 0.02196, GenSA 0.02105, QP 0.02105, deconstructSigs 0.02256, NMF 0.02602

# PD14460(optimal GSA error \* 1.05)



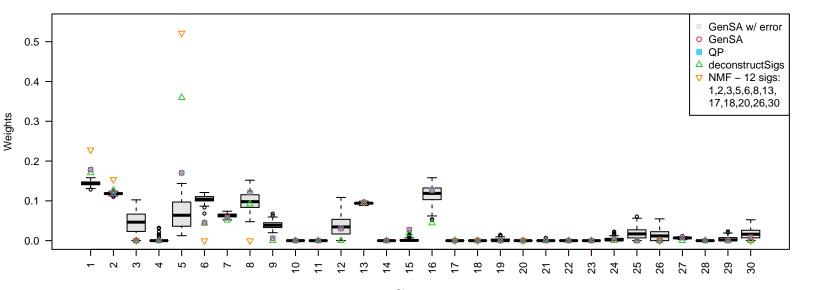
Signatures
GenSA+error(median) 0.01629, GenSA 0.01561, QP 0.01561, deconstructSigs 0.01630, NMF 0.07390

# PD14461(optimal GSA error \* 1.05)



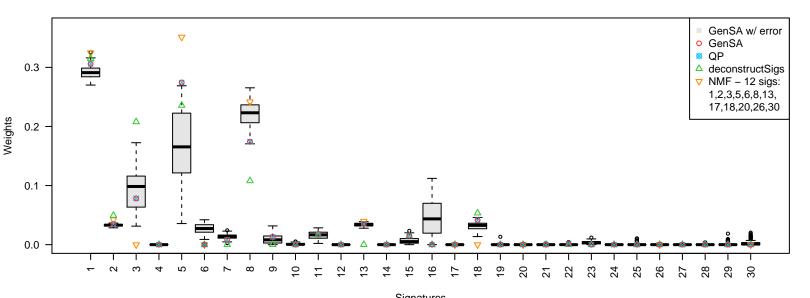
Signatures
GenSA+error(median) 0.02938, GenSA 0.02825, QP 0.02825, deconstructSigs 0.02847, NMF 0.03088

### PD14462(optimal GSA error \* 1.05)



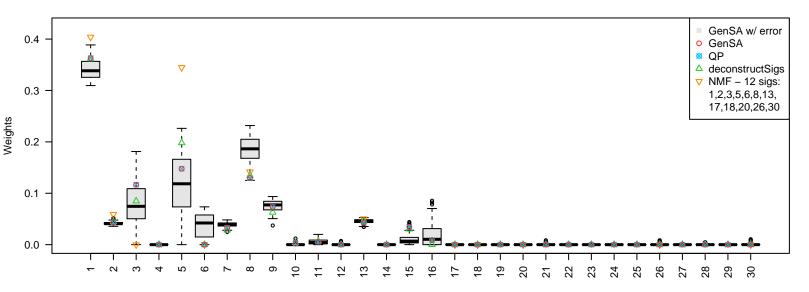
Signatures
GenSA+error(median) 0.02959, GenSA 0.02830, QP 0.02830, deconstructSigs 0.02892, NMF 0.03424

# PD14465(optimal GSA error \* 1.05)



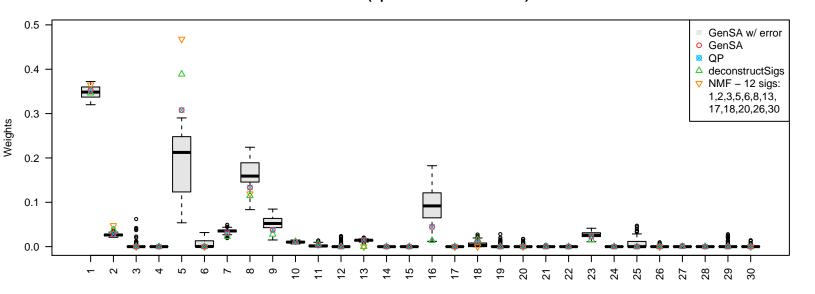
 $Signatures \\ GenSA+error(median)~0.02220,~GenSA~0.02124,~QP~0.02124,~deconstructSigs~0.02453,~NMF~0.02415$ 

# PD14467(optimal GSA error \* 1.05)



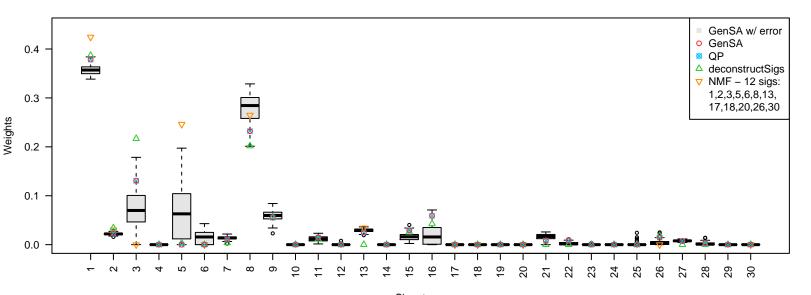
Signatures
GenSA+error(median) 0.02808, GenSA 0.02692, QP 0.02692, deconstructSigs 0.02701, NMF 0.03146

### PD14468(optimal GSA error \* 1.05)



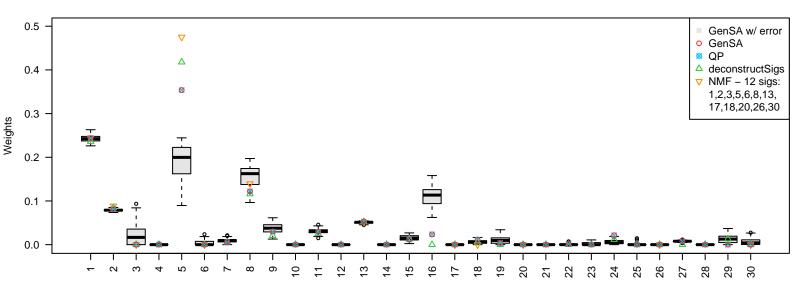
Signatures
GenSA+error(median) 0.02536, GenSA 0.02433, QP 0.02433, deconstructSigs 0.02532, NMF 0.02865

# PD14471(optimal GSA error \* 1.05)



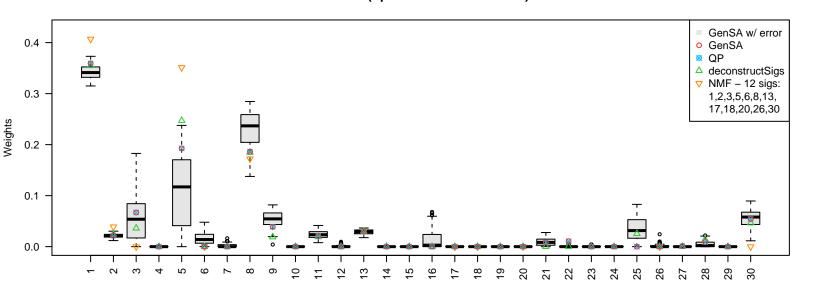
Signatures
GenSA+error(median) 0.02505, GenSA 0.02404, QP 0.02404, deconstructSigs 0.02602, NMF 0.02904

# PD14472(optimal GSA error \* 1.05)



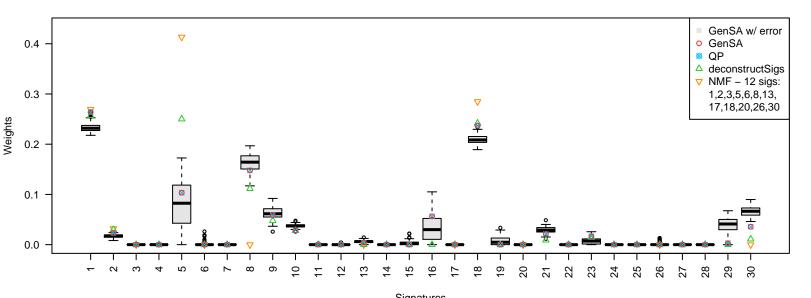
Signatures
GenSA+error(median) 0.02432, GenSA 0.02332, QP 0.02332, deconstructSigs 0.02365, NMF 0.02563

# PD14473(optimal GSA error \* 1.05)



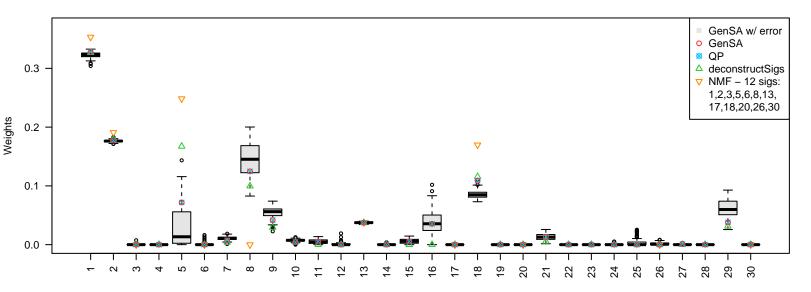
Signatures
GenSA+error(median) 0.02637, GenSA 0.02529, QP 0.02529, deconstructSigs 0.02549, NMF 0.03035

# PD17973(optimal GSA error \* 1.05)



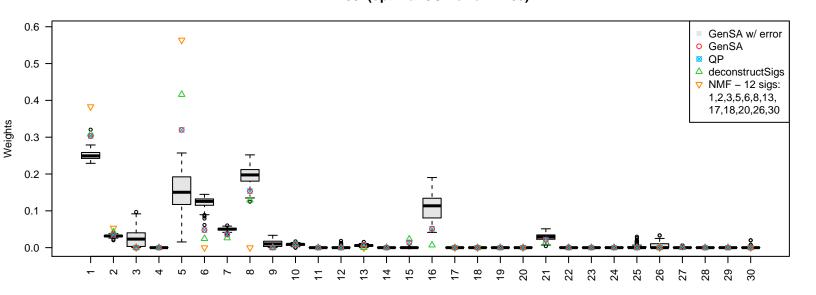
Signatures
GenSA+error(median) 0.02908, GenSA 0.02795, QP 0.02795, deconstructSigs 0.02827, NMF 0.03196

# **PD17981(optimal GSA error \* 1.05)**



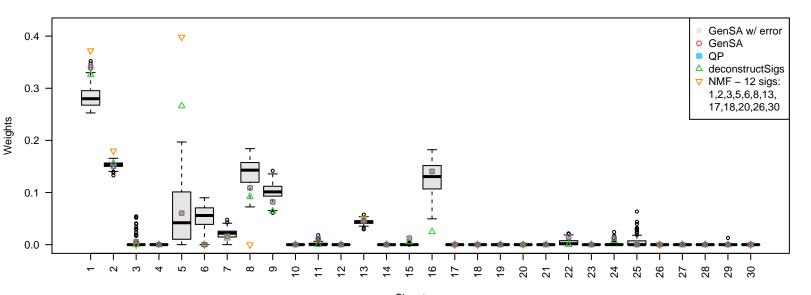
Signatures
GenSA+error(median) 0.01768, GenSA 0.01697, QP 0.01697, deconstructSigs 0.01727, NMF 0.02188

# **PD17991(optimal GSA error \* 1.05)**



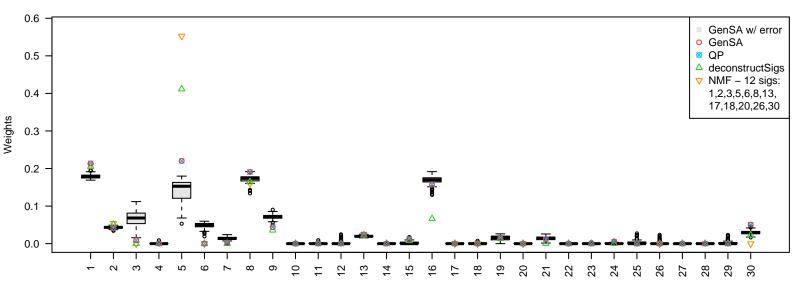
Signatures
GenSA+error(median) 0.03299, GenSA 0.03160, QP 0.03160, deconstructSigs 0.03194, NMF 0.03631

# PD17994(optimal GSA error \* 1.05)



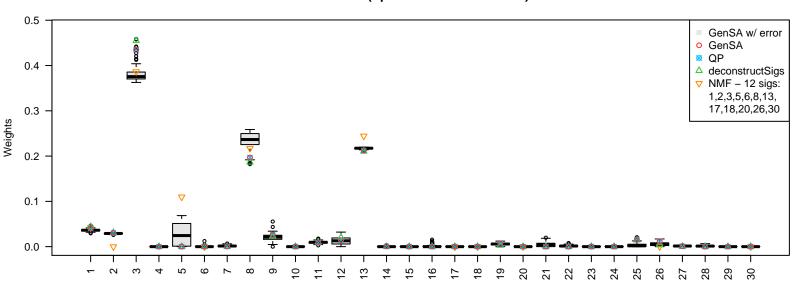
Signatures
GenSA+error(median) 0.03676, GenSA 0.03537, QP 0.03537, deconstructSigs 0.03607, NMF 0.04164

# PD18017(optimal GSA error \* 1.05)



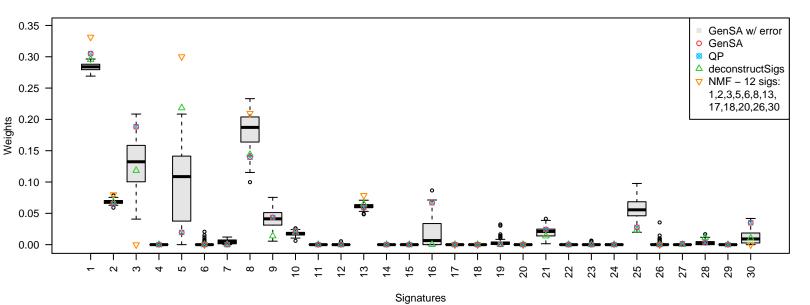
Signatures
GenSA+error(median) 0.03072, GenSA 0.02942, QP 0.02942, deconstructSigs 0.02982, NMF 0.03076

### PD18020(optimal GSA error \* 1.05)



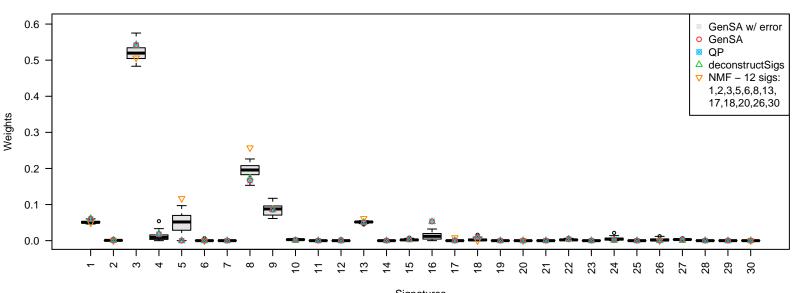
Signatures
GenSA+error(median) 0.01455, GenSA 0.01389, QP 0.01389, deconstructSigs 0.01396, NMF 0.02181

# PD18022(optimal GSA error \* 1.05)



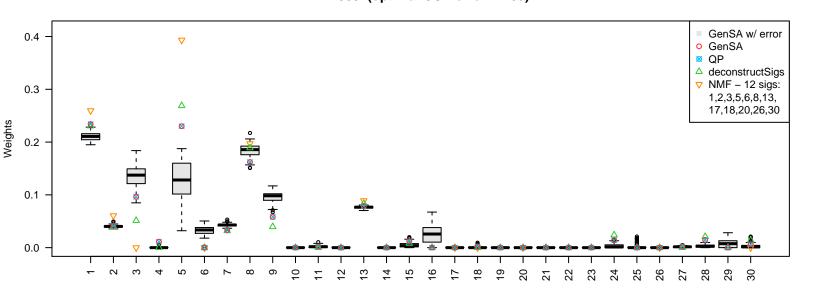
GenSA+error(median) 0.02756, GenSA 0.02647, QP 0.02647, deconstructSigs 0.02684, NMF 0.03110

# PD18024(optimal GSA error \* 1.05)



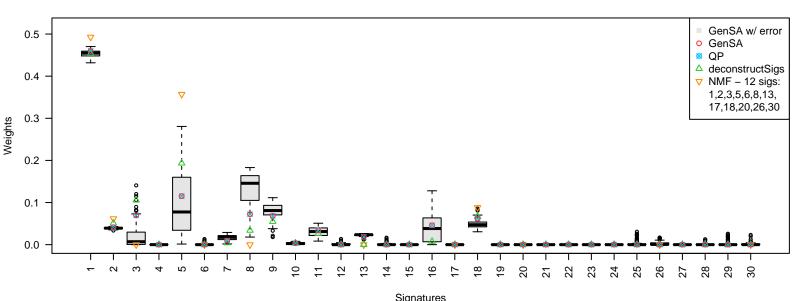
Signatures
GenSA+error(median) 0.01401, GenSA 0.01344, QP 0.01344, deconstructSigs 0.01353, NMF 0.01709

# PD18031(optimal GSA error \* 1.05)



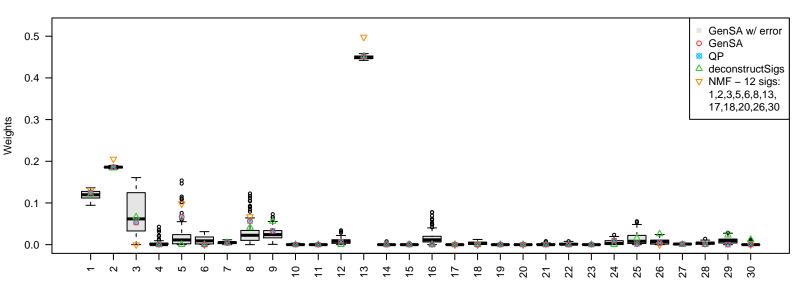
Signatures
GenSA+error(median) 0.02891, GenSA 0.02767, QP 0.02767, deconstructSigs 0.02781, NMF 0.03220

# PD18037(optimal GSA error \* 1.05)



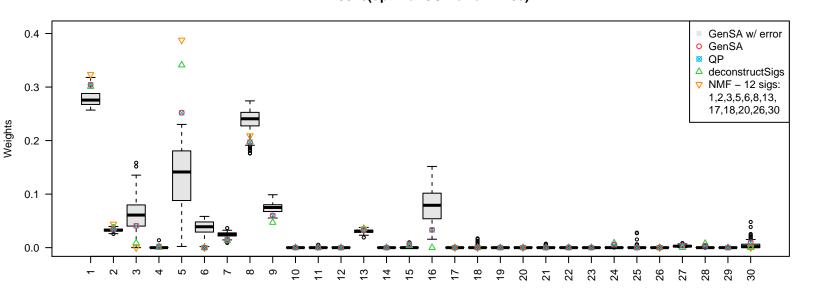
 $Signatures \\ GenSA+error(median)~0.02269,~GenSA~0.02172,~QP~0.02172,~deconstructSigs~0.02306,~NMF~0.02873$ 

# PD18045(optimal GSA error \* 1.05)



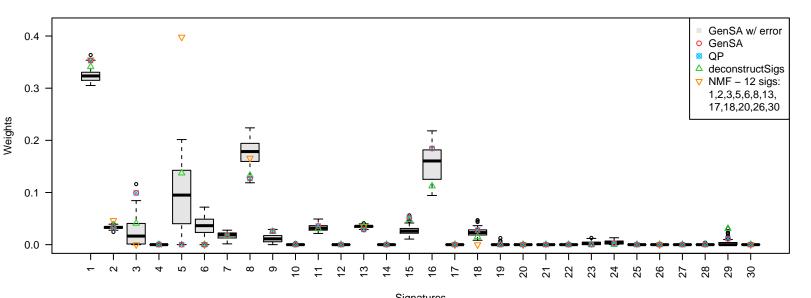
Signatures
GenSA+error(median) 0.01685, GenSA 0.01613, QP 0.01613, deconstructSigs 0.01663, NMF 0.02982

# PD18046(optimal GSA error \* 1.05)



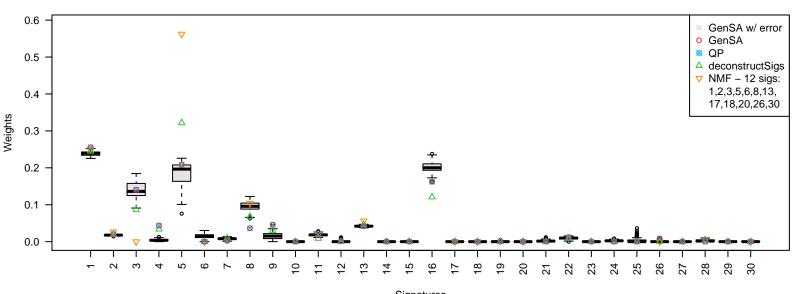
Signatures
GenSA+error(median) 0.02490, GenSA 0.02385, QP 0.02385, deconstructSigs 0.02400, NMF 0.02576

# PD18047(optimal GSA error \* 1.05)



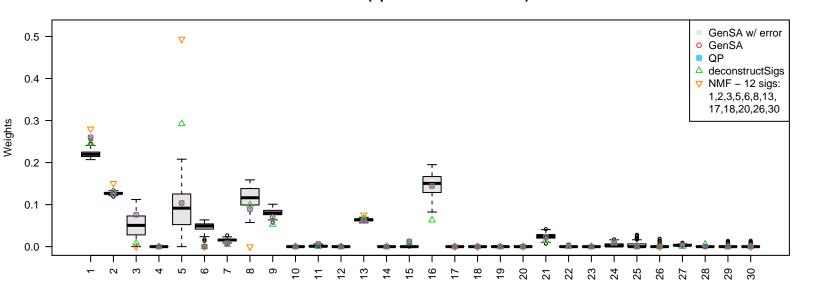
 $Signatures \\ GenSA+error(median)~0.02638,~GenSA~0.02527,~QP~0.02527,~deconstructSigs~0.02573,~NMF~0.03082$ 

# PD18048(optimal GSA error \* 1.05)



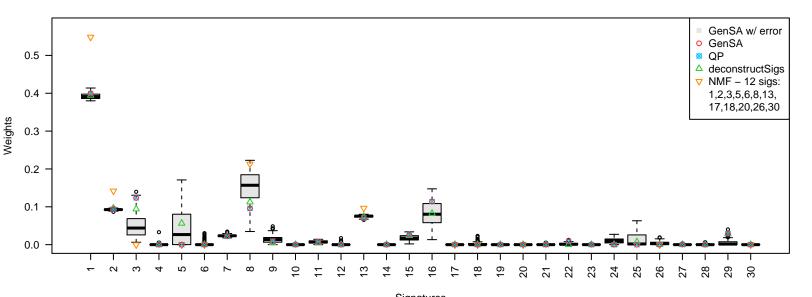
Signatures
GenSA+error(median) 0.01930, GenSA 0.01847, QP 0.01847, deconstructSigs 0.01877, NMF 0.02251

### PD18049(optimal GSA error \* 1.05)



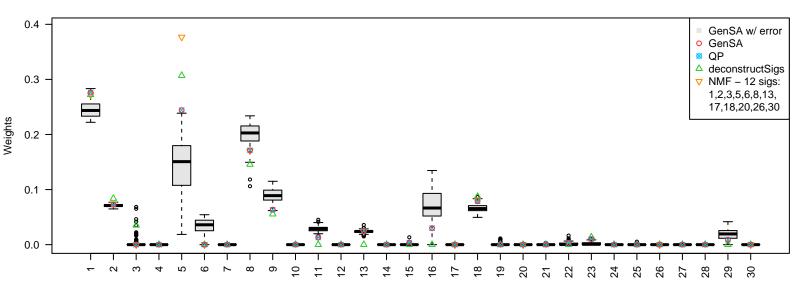
Signatures
GenSA+error(median) 0.02281, GenSA 0.02190, QP 0.02190, deconstructSigs 0.02235, NMF 0.02979

# PD18050(optimal GSA error \* 1.05)



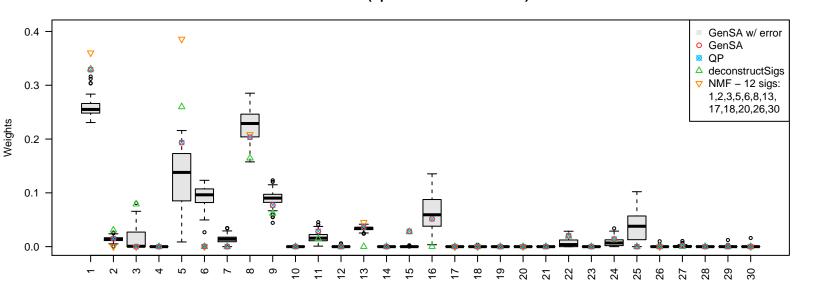
Signatures
GenSA+error(median) 0.02493, GenSA 0.02387, QP 0.02387, deconstructSigs 0.02430, NMF 0.04954

# PD18100(optimal GSA error \* 1.05)



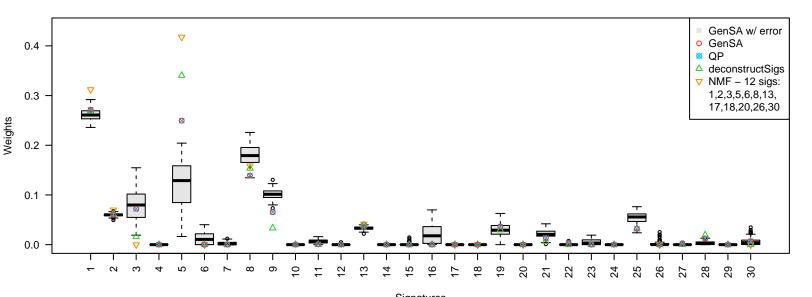
Signatures
GenSA+error(median) 0.03125, GenSA 0.03006, QP 0.03006, deconstructSigs 0.03178, NMF 0.03098

### **PD18101(optimal GSA error \* 1.05)**



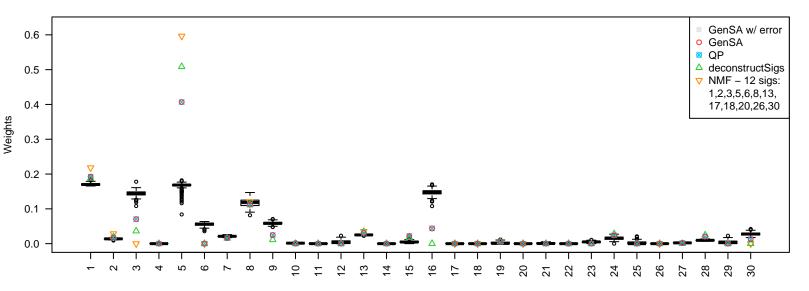
Signatures
GenSA+error(median) 0.03949, GenSA 0.03786, QP 0.03786, deconstructSigs 0.04054, NMF 0.04108

# PD18116(optimal GSA error \* 1.05)



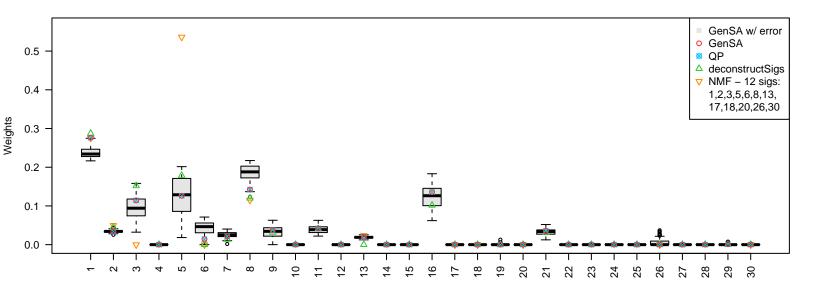
 $Signatures \\ GenSA+error(median)~0.02823,~GenSA~0.02712,~QP~0.02712,~deconstructSigs~0.02740,~NMF~0.03104$ 

# PD18149(optimal GSA error \* 1.05)



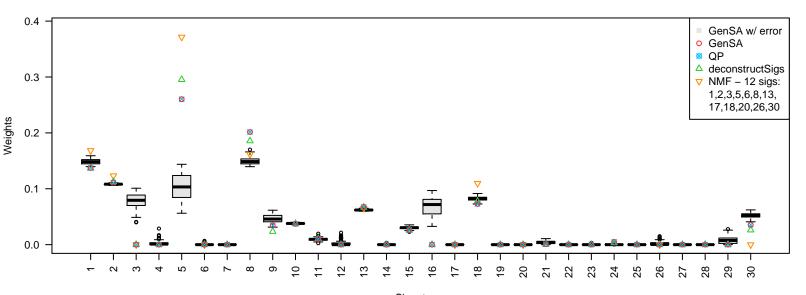
Signatures
GenSA+error(median) 0.02387, GenSA 0.02279, QP 0.02279, deconstructSigs 0.02293, NMF 0.02607

### PD18188(optimal GSA error \* 1.05)



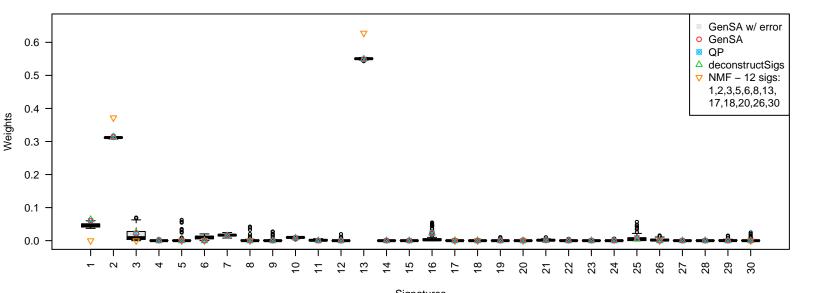
Signatures
GenSA+error(median) 0.02554, GenSA 0.02451, QP 0.02451, deconstructSigs 0.02561, NMF 0.02843

# PD18189(optimal GSA error \* 1.05)



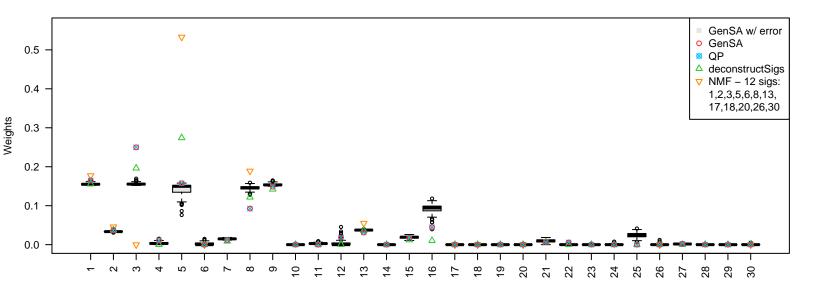
Signatures
GenSA+error(median) 0.01932, GenSA 0.01843, QP 0.01843, deconstructSigs 0.01852, NMF 0.02397

# PD18247(optimal GSA error \* 1.05)



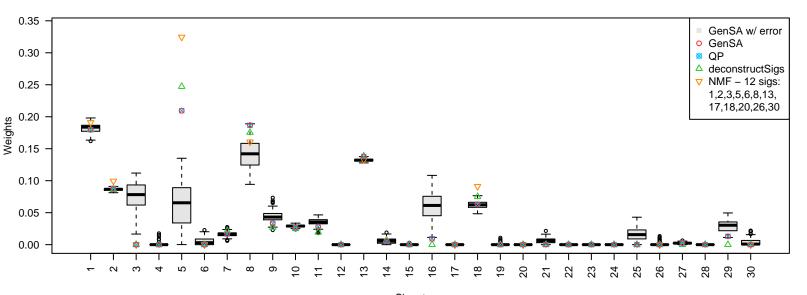
Signatures
GenSA+error(median) 0.01529, GenSA 0.01465, QP 0.01465, deconstructSigs 0.01468, NMF 0.05505

### PD18251(optimal GSA error \* 1.05)



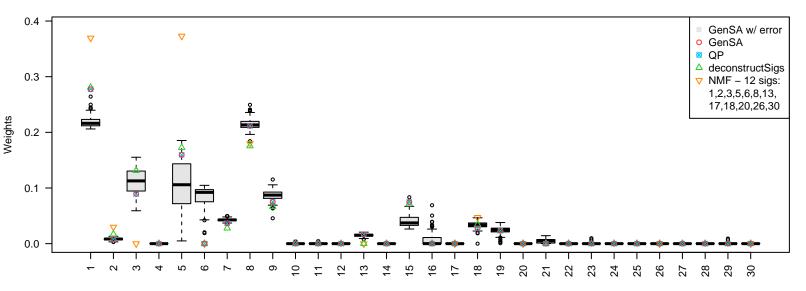
Signatures
GenSA+error(median) 0.02192, GenSA 0.02094, QP 0.02094, deconstructSigs 0.02123, NMF 0.02952

# PD18257(optimal GSA error \* 1.05)



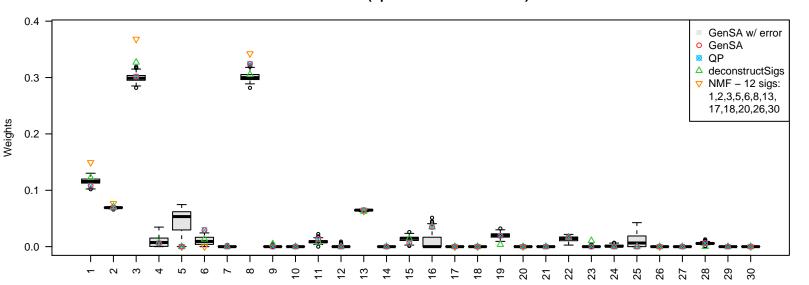
 $Signatures \\ GenSA+error(median)~0.02102,~GenSA~0.02013,~QP~0.02013,~deconstructSigs~0.02030,~NMF~0.02488$ 

# PD18258(optimal GSA error \* 1.05)



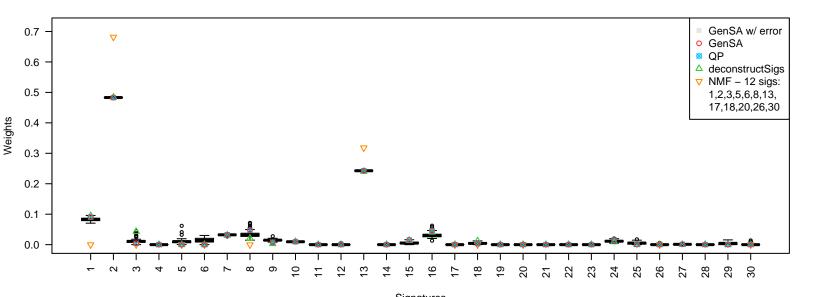
Signatures
GenSA+error(median) 0.03354, GenSA 0.03209, QP 0.03209, deconstructSigs 0.03272, NMF 0.04115

### PD18259(optimal GSA error \* 1.05)



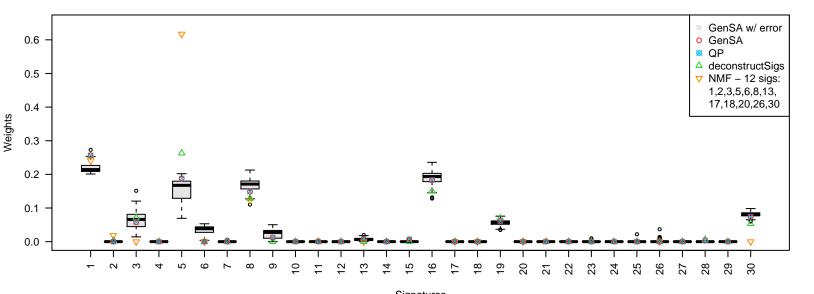
Signatures
GenSA+error(median) 0.01617, GenSA 0.01547, QP 0.01547, deconstructSigs 0.01574, NMF 0.01917

# PD18264(optimal GSA error \* 1.05)



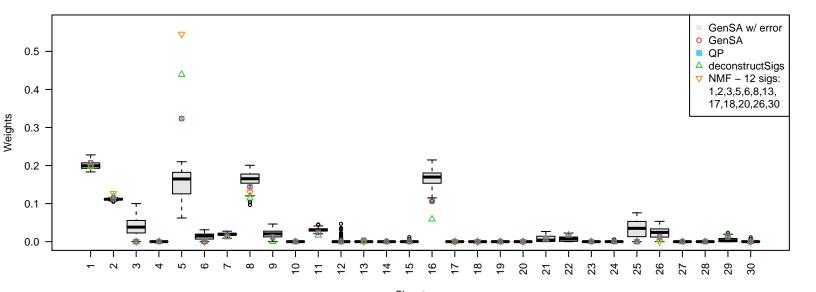
Signatures
GenSA+error(median) 0.00953, GenSA 0.00912, QP 0.00912, deconstructSigs 0.00940, NMF 0.11033

# PD18269(optimal GSA error \* 1.05)



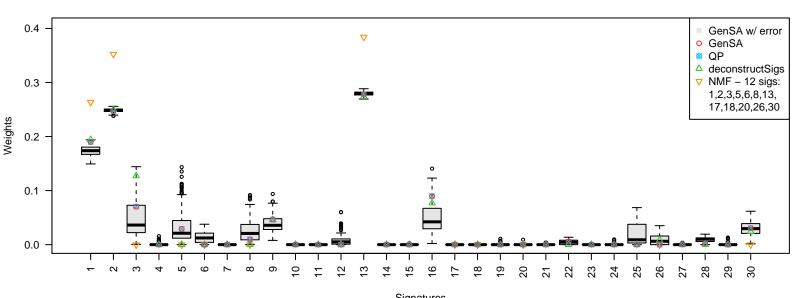
Signatures
GenSA+error(median) 0.03092, GenSA 0.02969, QP 0.02969, deconstructSigs 0.03008, NMF 0.03383

### PD18728(optimal GSA error \* 1.05)



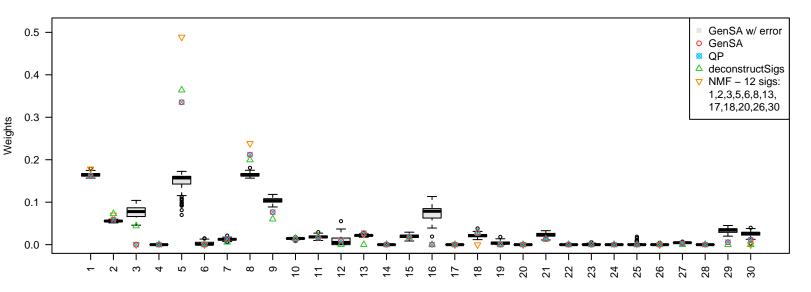
Signatures
GenSA+error(median) 0.02554, GenSA 0.02445, QP 0.02445, deconstructSigs 0.02476, NMF 0.02629

# PD18730(optimal GSA error \* 1.05)



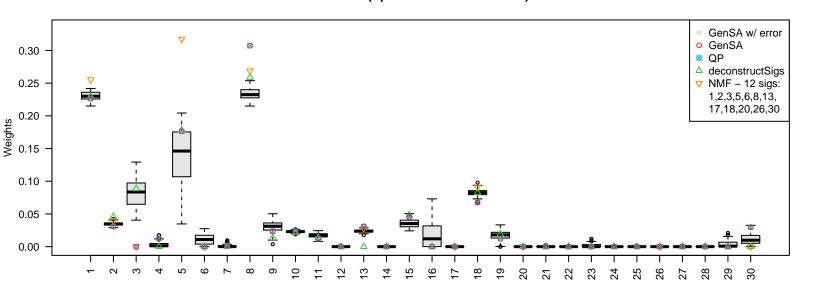
Signatures
GenSA+error(median) 0.02356, GenSA 0.02259, QP 0.02259, deconstructSigs 0.02288, NMF 0.08473

# PD18733(optimal GSA error \* 1.05)



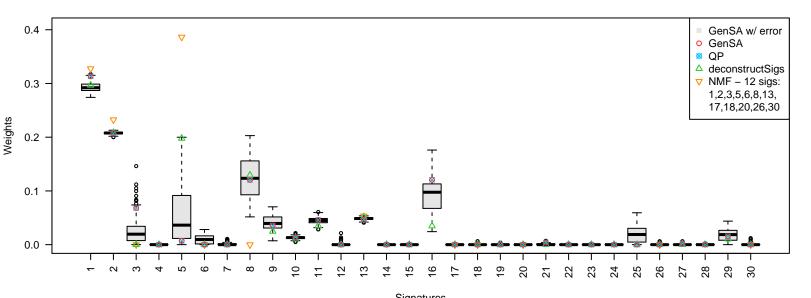
Signatures
GenSA+error(median) 0.02647, GenSA 0.02530, QP 0.02530, deconstructSigs 0.02745, NMF 0.02890

### PD18734(optimal GSA error \* 1.05)



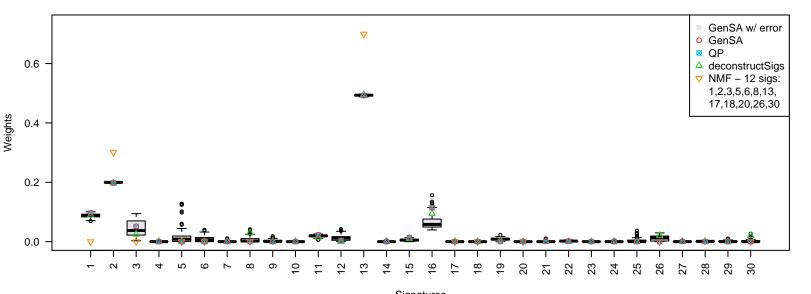
Signatures
GenSA+error(median) 0.02647, GenSA 0.02536, QP 0.02536, deconstructSigs 0.02786, NMF 0.02961

# PD18748(optimal GSA error \* 1.05)



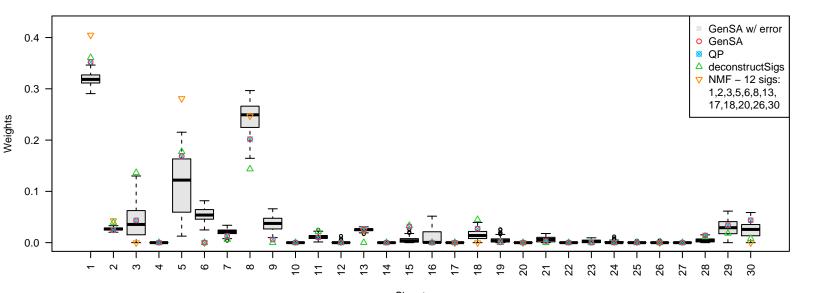
 $Signatures \\ GenSA+error(median)~0.02201,~GenSA~0.02116,~QP~0.02116,~deconstructSigs~0.02167,~NMF~0.02953$ 

# PD18749(optimal GSA error \* 1.05)



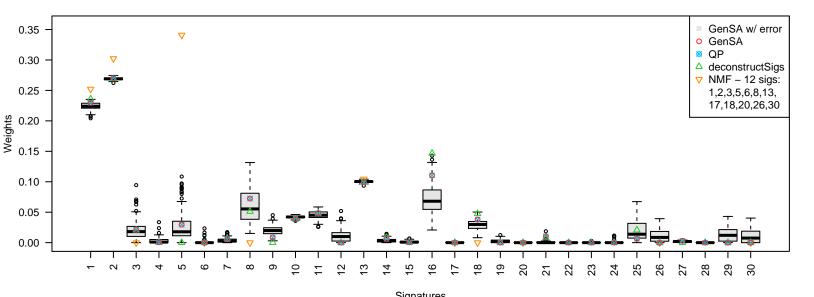
Signatures
GenSA+error(median) 0.01526, GenSA 0.01459, QP 0.01459, deconstructSigs 0.01501, NMF 0.12161

### **PD18751(optimal GSA error \* 1.05)**



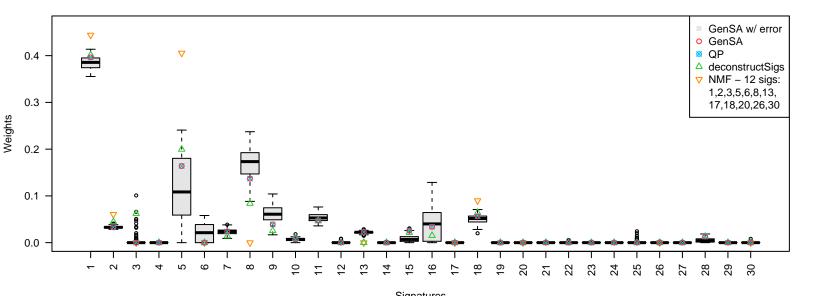
Signatures
GenSA+error(median) 0.02612, GenSA 0.02500, QP 0.02500, deconstructSigs 0.02662, NMF 0.03039

# PD18754(optimal GSA error \* 1.05)



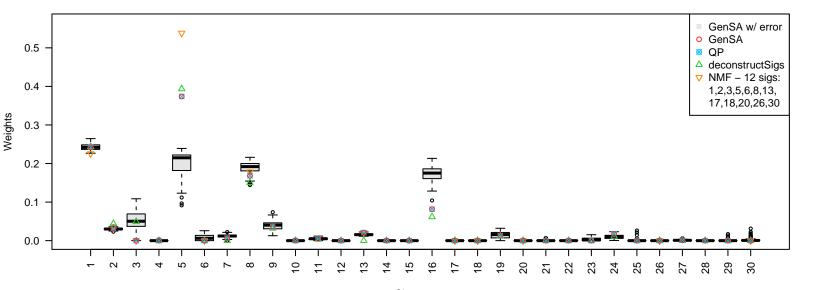
Signatures
GenSA+error(median) 0.01961, GenSA 0.01881, QP 0.01881, deconstructSigs 0.01902, NMF 0.03247

# PD18756(optimal GSA error \* 1.05)



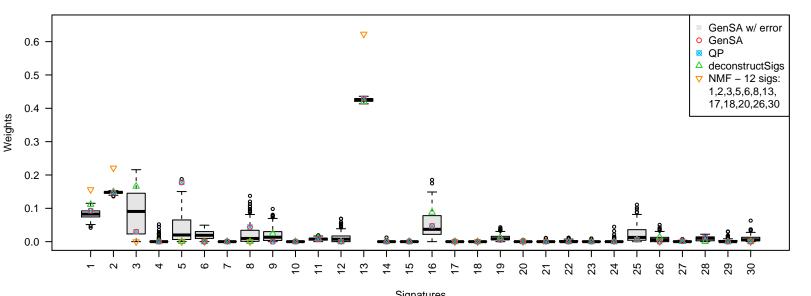
Signatures
GenSA+error(median) 0.02652, GenSA 0.02549, QP 0.02549, deconstructSigs 0.02693, NMF 0.03396

### PD18768(optimal GSA error \* 1.05)



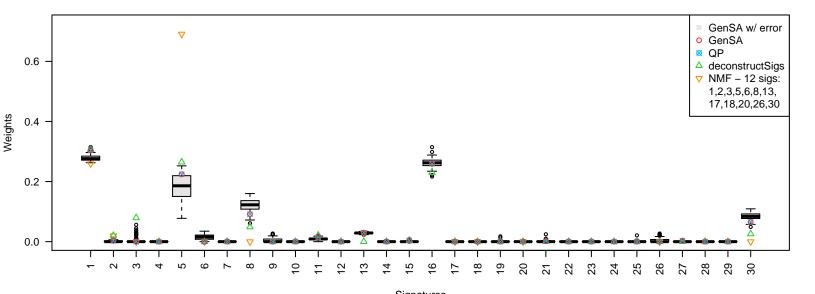
Signatures
GenSA+error(median) 0.02567, GenSA 0.02464, QP 0.02464, deconstructSigs 0.02593, NMF 0.02546

# PD18769(optimal GSA error \* 1.05)



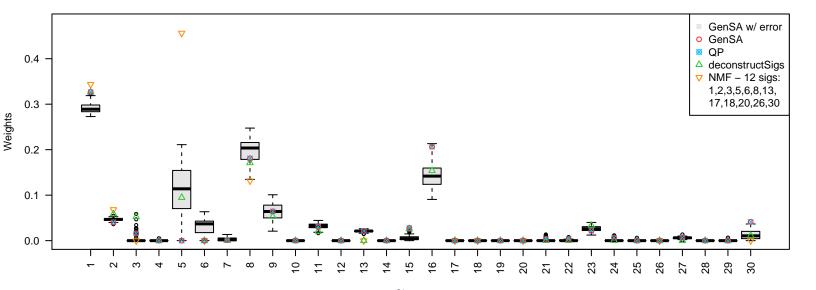
 $Signatures \\ GenSA+error(median)~0.03197,~GenSA~0.03062,~QP~0.03062,~deconstructSigs~0.03131,~NMF~0.11099$ 

# **PD18771(optimal GSA error \* 1.05)**



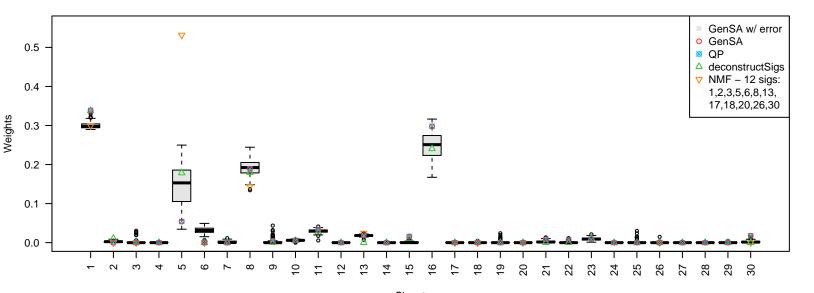
Signatures
GenSA+error(median) 0.02544, GenSA 0.02454, QP 0.02454, deconstructSigs 0.02705, NMF 0.02831

### **PD18775(optimal GSA error \* 1.05)**



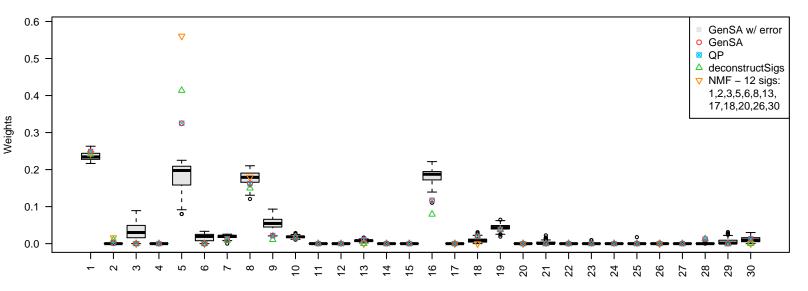
Signatures
GenSA+error(median) 0.03337, GenSA 0.03202, QP 0.03202, deconstructSigs 0.03343, NMF 0.03843

# PD18776(optimal GSA error \* 1.05)



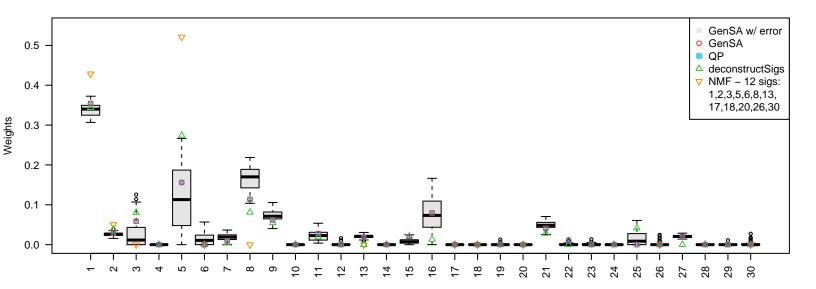
Signatures
GenSA+error(median) 0.03089, GenSA 0.02957, QP 0.02957, deconstructSigs 0.03090, NMF 0.03395

# PD22036(optimal GSA error \* 1.05)



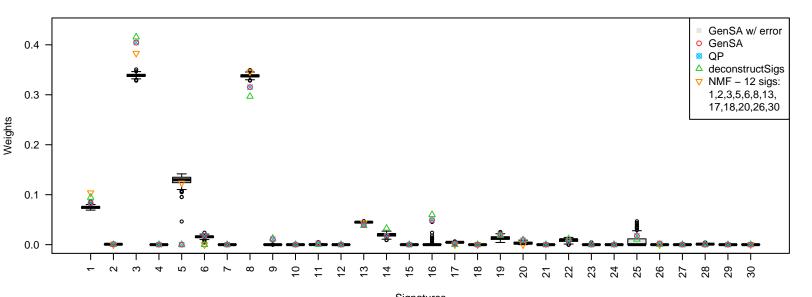
Signatures
GenSA+error(median) 0.02853, GenSA 0.02739, QP 0.02739, deconstructSigs 0.02790, NMF 0.03038

### PD22251(optimal GSA error \* 1.05)



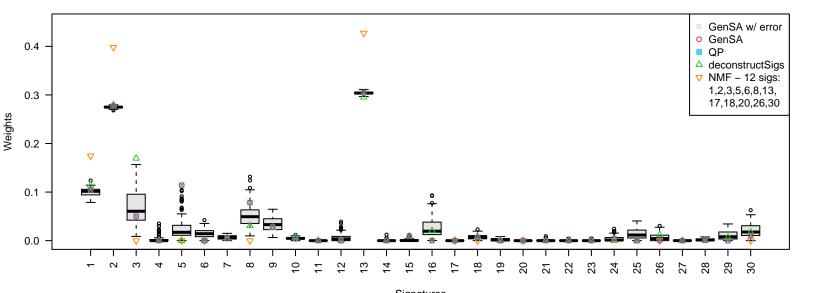
Signatures
GenSA+error(median) 0.02991, GenSA 0.02877, QP 0.02877, deconstructSigs 0.03085, NMF 0.03922

### PD22355(optimal GSA error \* 1.05)



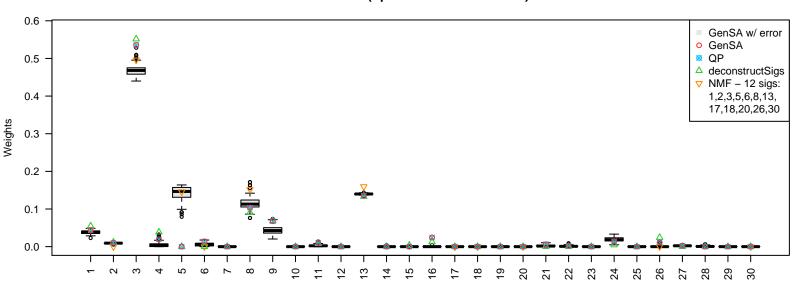
Signatures
GenSA+error(median) 0.01738, GenSA 0.01659, QP 0.01659, deconstructSigs 0.01671, NMF 0.01860

### PD22357(optimal GSA error \* 1.05)



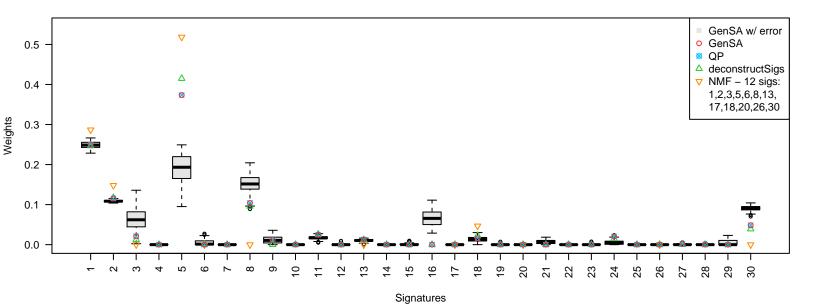
Signatures
GenSA+error(median) 0.01909, GenSA 0.01827, QP 0.01827, deconstructSigs 0.01900, NMF 0.09622

#### PD22358(optimal GSA error \* 1.05)



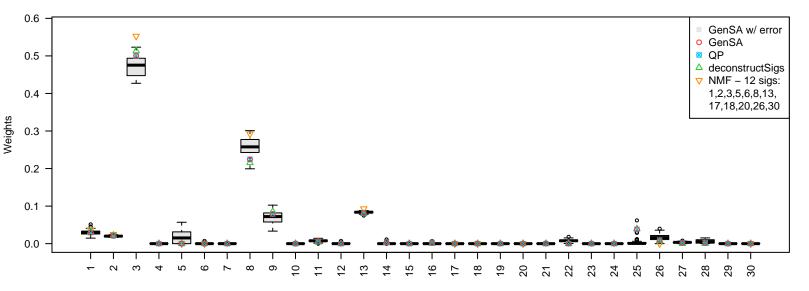
Signatures
GenSA+error(median) 0.01593, GenSA 0.01522, QP 0.01522, deconstructSigs 0.01541, NMF 0.01924

### PD22359(optimal GSA error \* 1.05)



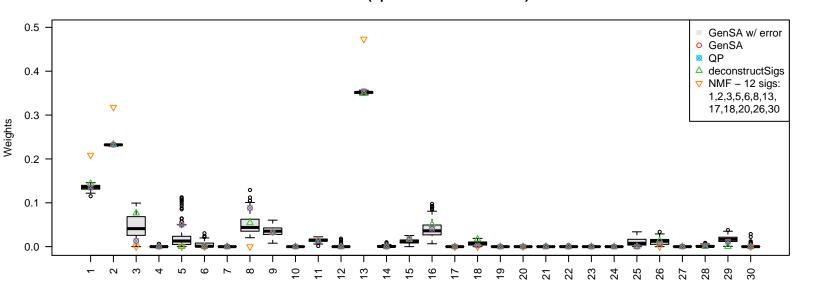
GenSA+error(median) 0.02645, GenSA 0.02528, QP 0.02528, deconstructSigs 0.02539, NMF 0.03095

# PD22360(optimal GSA error \* 1.05)



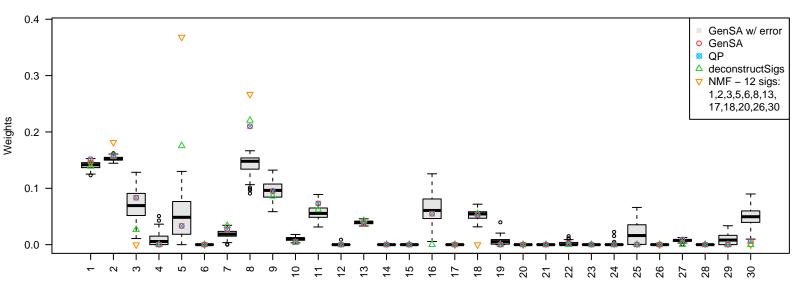
Signatures
GenSA+error(median) 0.01781, GenSA 0.01723, QP 0.01723, deconstructSigs 0.01729, NMF 0.02211

# PD22361(optimal GSA error \* 1.05)



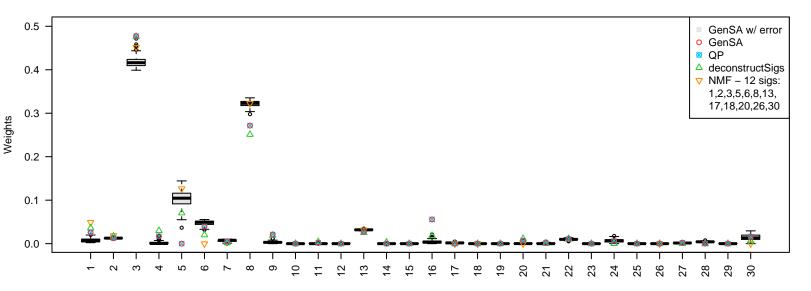
Signatures
GenSA+error(median) 0.01373, GenSA 0.01315, QP 0.01315, deconstructSigs 0.01350, NMF 0.08226

### PD22362(optimal GSA error \* 1.05)



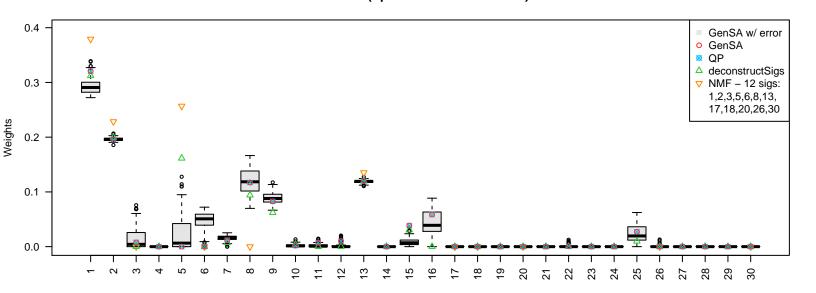
Signatures
GenSA+error(median) 0.03068, GenSA 0.02943, QP 0.02943, deconstructSigs 0.02987, NMF 0.03984

# PD22363(optimal GSA error \* 1.05)



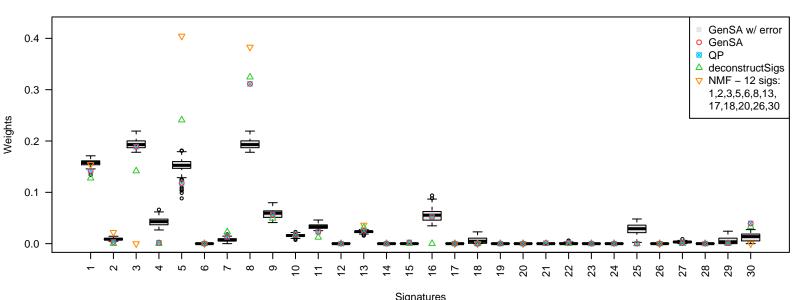
Signatures
GenSA+error(median) 0.01539, GenSA 0.01470, QP 0.01470, deconstructSigs 0.01502, NMF 0.01695

#### PD22364(optimal GSA error \* 1.05)



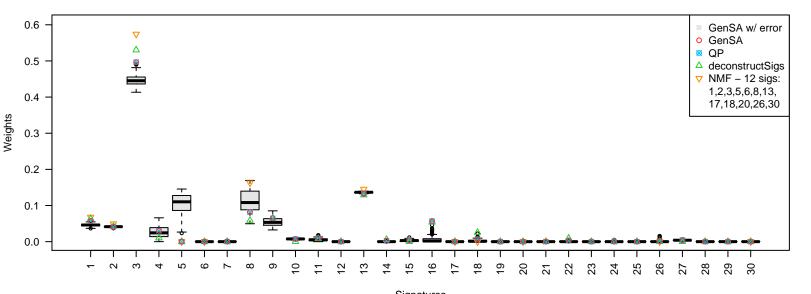
Signatures
GenSA+error(median) 0.02912, GenSA 0.02799, QP 0.02799, deconstructSigs 0.02847, NMF 0.03830

### PD22365(optimal GSA error \* 1.05)



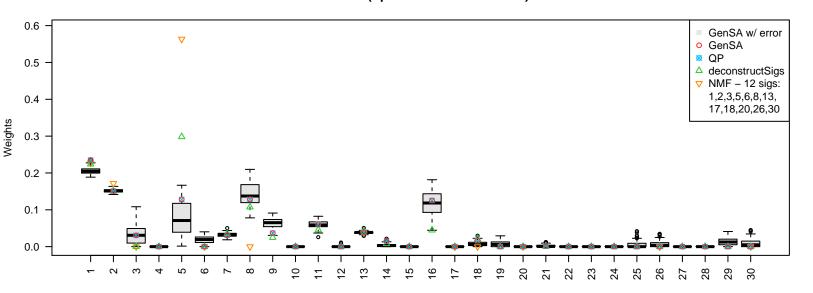
Signatures
GenSA+error(median) 0.02813, GenSA 0.02696, QP 0.02696, deconstructSigs 0.02722, NMF 0.03198

# PD22366(optimal GSA error \* 1.05)



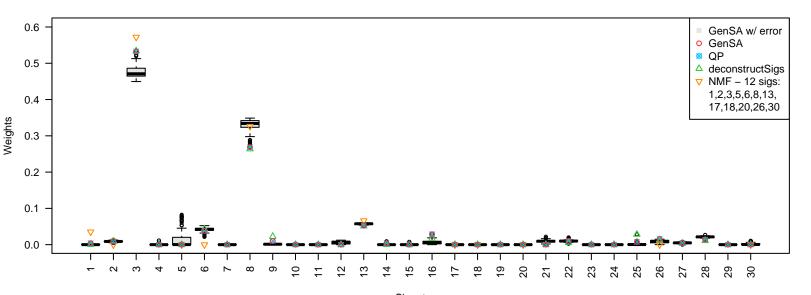
Signatures
GenSA+error(median) 0.01840, GenSA 0.01759, QP 0.01759, deconstructSigs 0.01796, NMF 0.02328

#### PD23550(optimal GSA error \* 1.05)



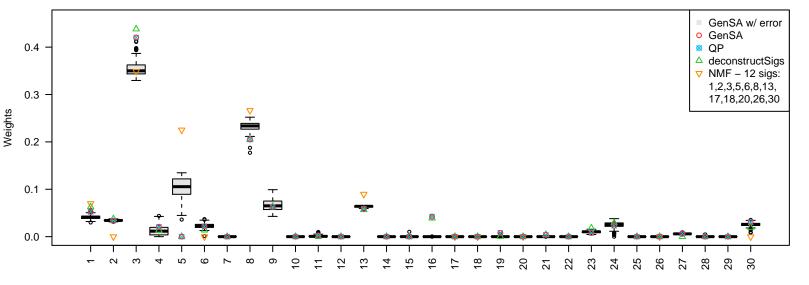
Signatures
GenSA+error(median) 0.03288, GenSA 0.03155, QP 0.03155, deconstructSigs 0.03192, NMF 0.03925

### PD23554(optimal GSA error \* 1.05)



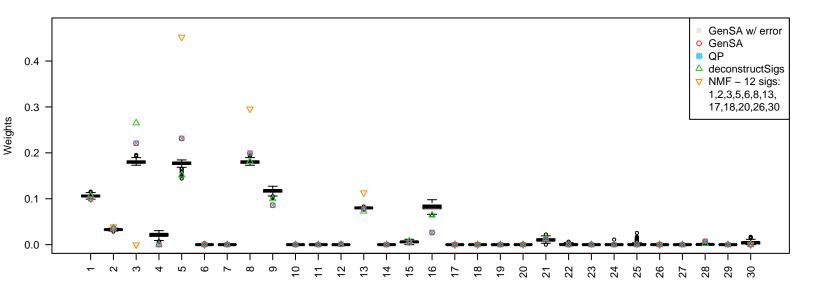
 $Signatures \\ GenSA+error(median)~0.01800,~GenSA~0.01722,~QP~0.01722,~deconstructSigs~0.01730,~NMF~0.02174$ 

### PD23558(optimal GSA error \* 1.05)



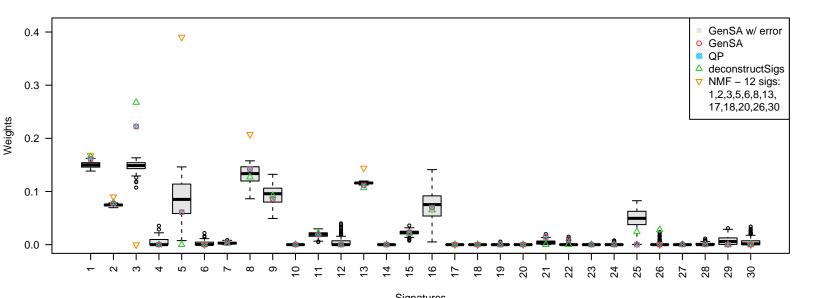
Signatures
GenSA+error(median) 0.01487, GenSA 0.01423, QP 0.01423, deconstructSigs 0.01459, NMF 0.02578

# PD23559(optimal GSA error \* 1.05)



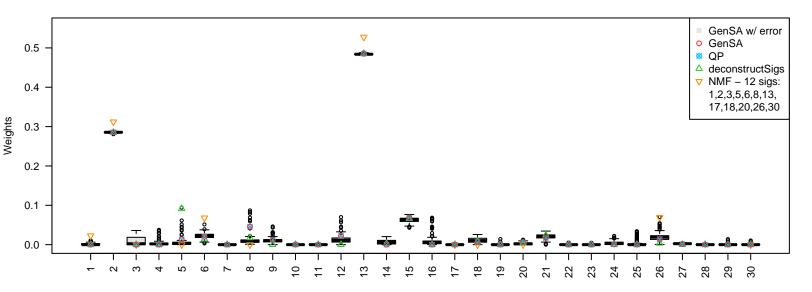
Signatures
GenSA+error(median) 0.01965, GenSA 0.01881, QP 0.01881, deconstructSigs 0.01896, NMF 0.02641

### PD23560(optimal GSA error \* 1.05)



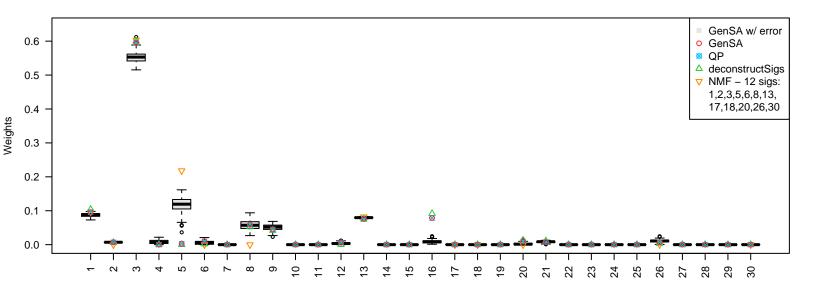
Signatures
GenSA+error(median) 0.02314, GenSA 0.02215, QP 0.02215, deconstructSigs 0.02244, NMF 0.02887

### PD23561(optimal GSA error \* 1.05)



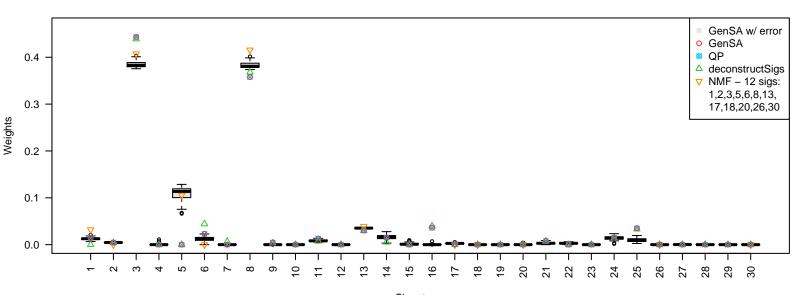
Signatures
GenSA+error(median) 0.01541, GenSA 0.01474, QP 0.01474, deconstructSigs 0.01513, NMF 0.03344

# PD23562(optimal GSA error \* 1.05)



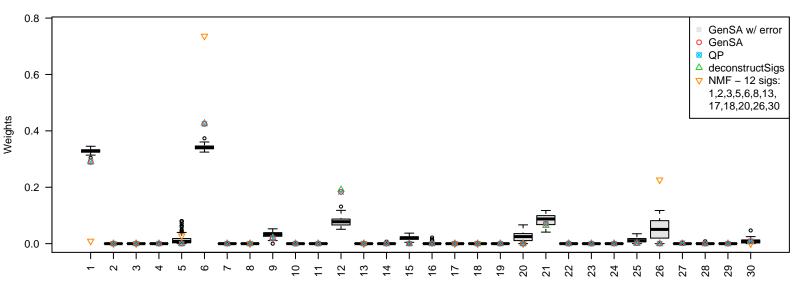
Signatures
GenSA+error(median) 0.01480, GenSA 0.01416, QP 0.01416, deconstructSigs 0.01422, NMF 0.01684

### PD23563(optimal GSA error \* 1.05)



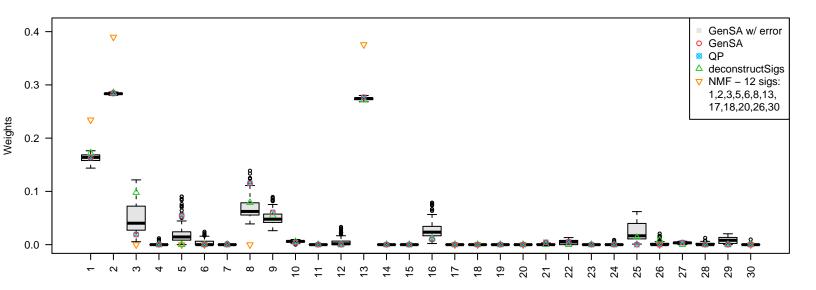
Signatures
GenSA+error(median) 0.01415, GenSA 0.01353, QP 0.01353, deconstructSigs 0.01369, NMF 0.01594

# PD23564(optimal GSA error \* 1.05)



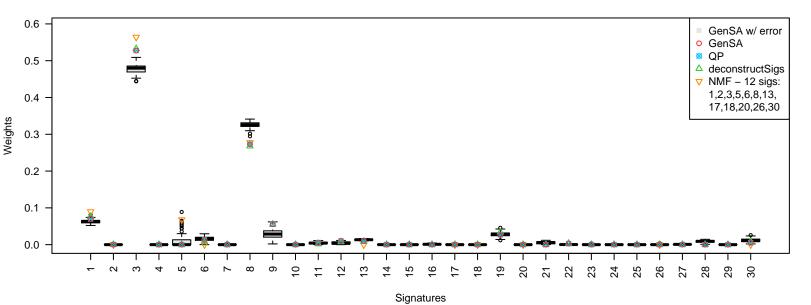
Signatures
GenSA+error(median) 0.03913, GenSA 0.03745, QP 0.03745, deconstructSigs 0.03747, NMF 0.05910

#### PD23565(optimal GSA error \* 1.05)



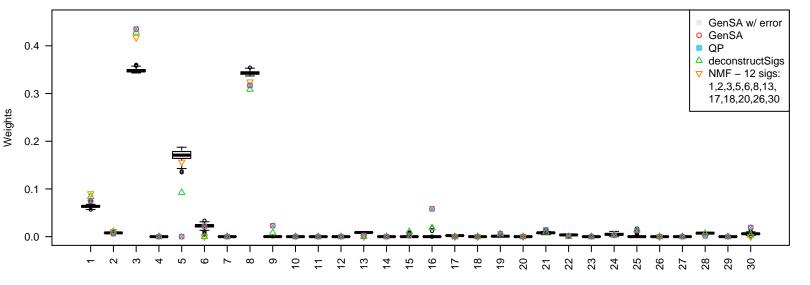
Signatures
GenSA+error(median) 0.01814, GenSA 0.01737, QP 0.01737, deconstructSigs 0.01792, NMF 0.08487

### PD23566(optimal GSA error \* 1.05)



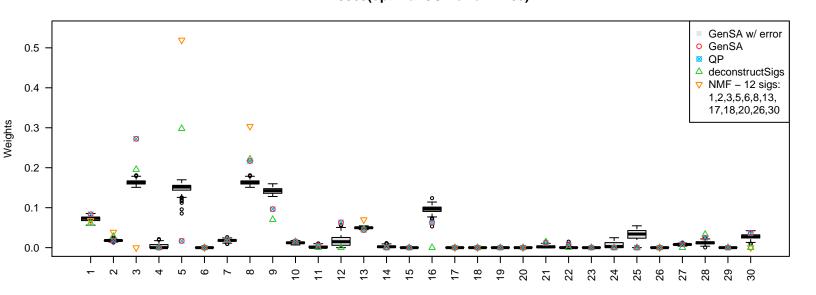
GenSA+error(median) 0.01625, GenSA 0.01557, QP 0.01557, deconstructSigs 0.01563, NMF 0.01772

# PD23567(optimal GSA error \* 1.05)



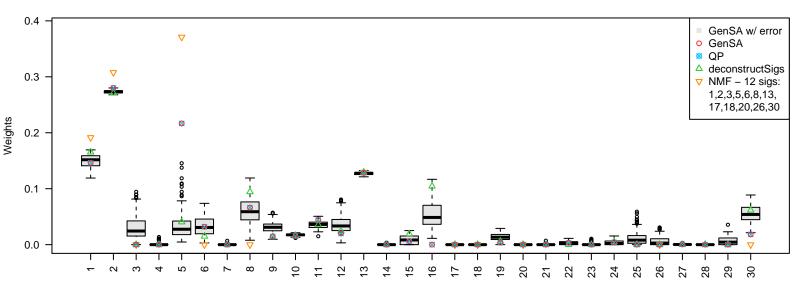
Signatures
GenSA+error(median) 0.01383, GenSA 0.01320, QP 0.01320, deconstructSigs 0.01348, NMF 0.01427

# PD23569(optimal GSA error \* 1.05)



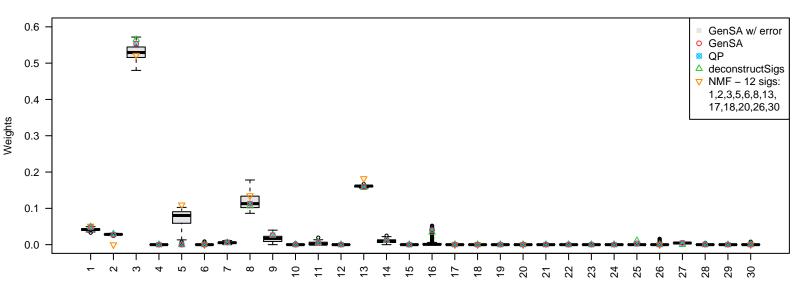
Signatures
GenSA+error(median) 0.03653, GenSA 0.03496, QP 0.03496, deconstructSigs 0.03567, NMF 0.04177

### PD23570(optimal GSA error \* 1.05)



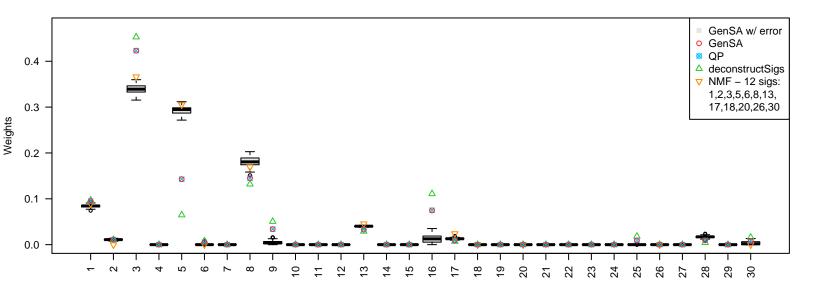
Signatures
GenSA+error(median) 0.02189, GenSA 0.02094, QP 0.02094, deconstructSigs 0.02181, NMF 0.02757

### PD23574(optimal GSA error \* 1.05)



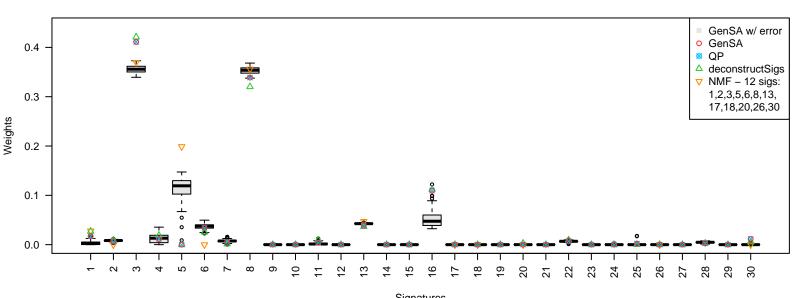
Signatures
GenSA+error(median) 0.01678, GenSA 0.01605, QP 0.01605, deconstructSigs 0.01616, NMF 0.02256

#### PD23577(optimal GSA error \* 1.05)



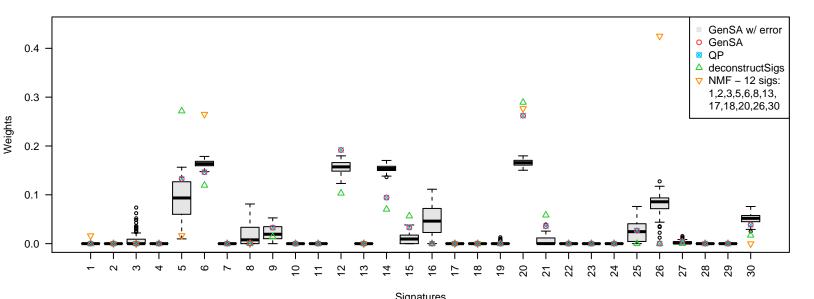
Signatures
GenSA+error(median) 0.01587, GenSA 0.01521, QP 0.01521, deconstructSigs 0.01537, NMF 0.01714

### PD23578(optimal GSA error \* 1.05)



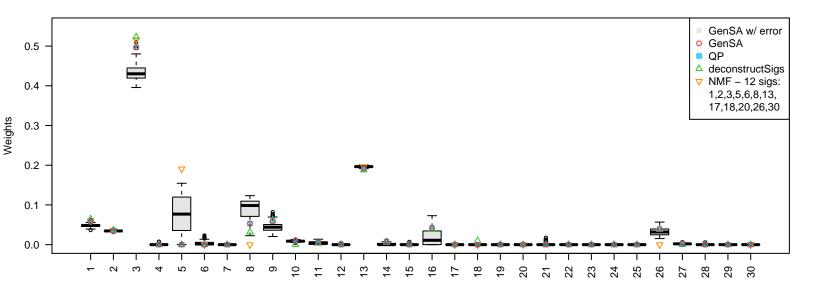
Signatures
GenSA+error(median) 0.01442, GenSA 0.01378, QP 0.01378, deconstructSigs 0.01389, NMF 0.01616

### PD23579(optimal GSA error \* 1.05)



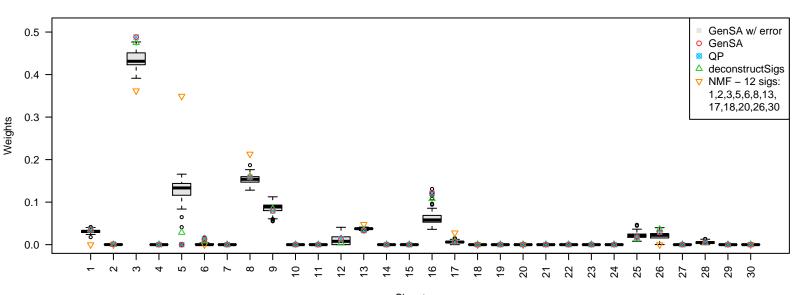
Signatures
GenSA+error(median) 0.05306, GenSA 0.05088, QP 0.05088, deconstructSigs 0.05131, NMF 0.06971

#### PD24182(optimal GSA error \* 1.05)



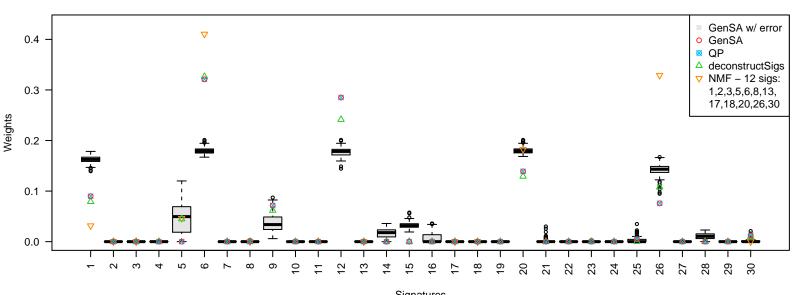
Signatures
GenSA+error(median) 0.01905, GenSA 0.01821, QP 0.01821, deconstructSigs 0.01860, NMF 0.02149

### PD24186(optimal GSA error \* 1.05)



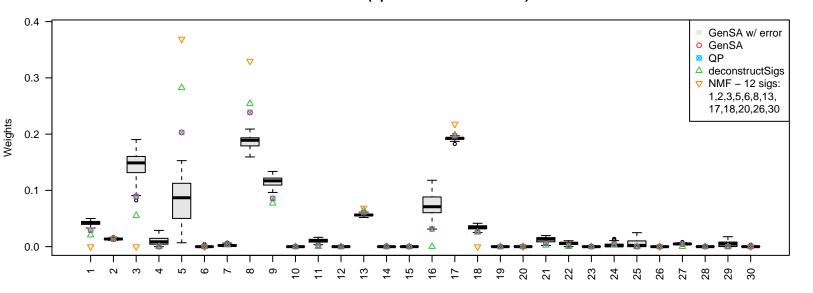
Signatures
GenSA+error(median) 0.01671, GenSA 0.01598, QP 0.01598, deconstructSigs 0.01606, NMF 0.02017

### PD24189(optimal GSA error \* 1.05)



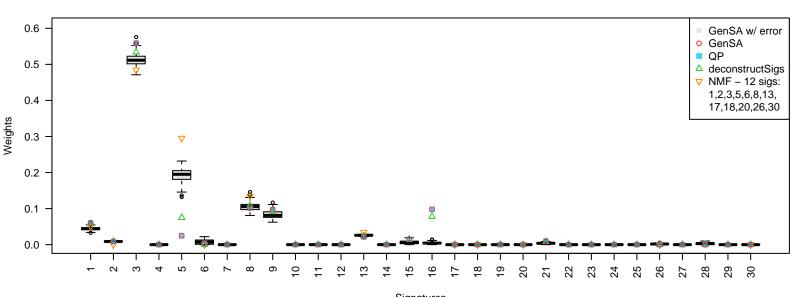
Signatures
GenSA+error(median) 0.03805, GenSA 0.03637, QP 0.03637, deconstructSigs 0.03657, NMF 0.04764

#### PD24190(optimal GSA error \* 1.05)



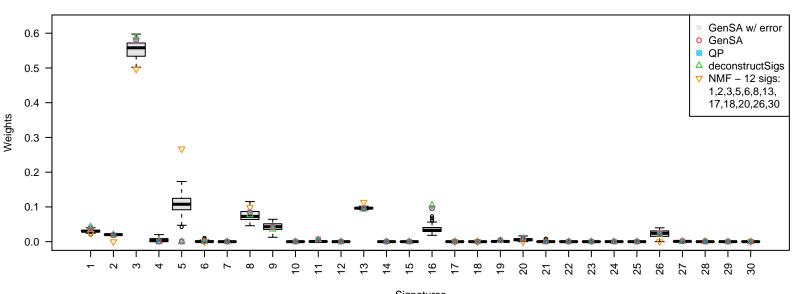
Signatures
GenSA+error(median) 0.01653, GenSA 0.01582, QP 0.01582, deconstructSigs 0.01603, NMF 0.01860

### PD24191(optimal GSA error \* 1.05)



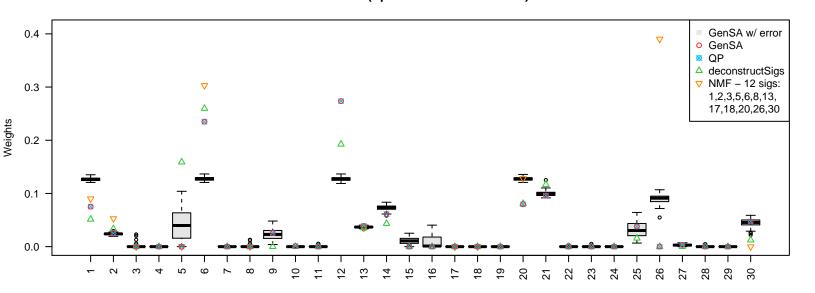
 $Signatures \\ GenSA+error(median)~0.01810,~GenSA~0.01728,~QP~0.01728,~deconstructSigs~0.01735,~NMF~0.02103$ 

# PD24192(optimal GSA error \* 1.05)



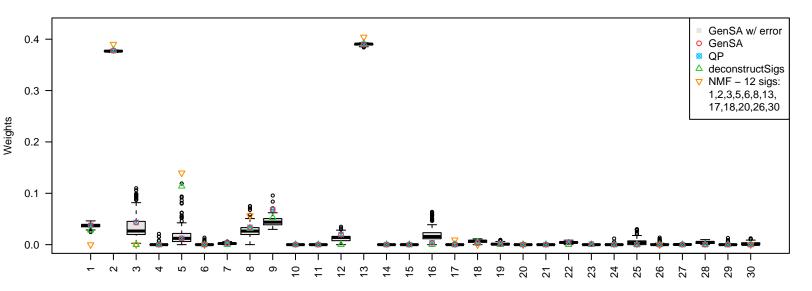
Signatures
GenSA+error(median) 0.01405, GenSA 0.01344, QP 0.01344, deconstructSigs 0.01349, NMF 0.01752

#### PD24193(optimal GSA error \* 1.05)



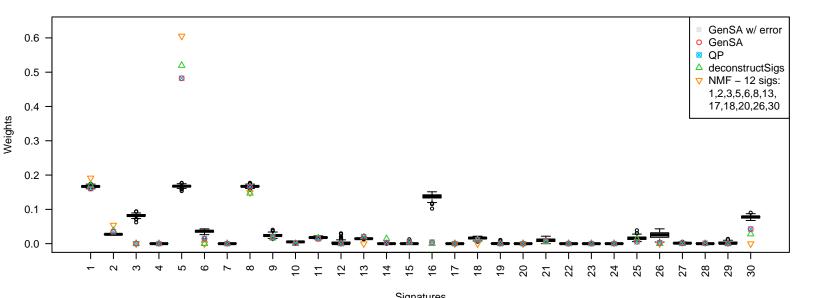
Signatures
GenSA+error(median) 0.04123, GenSA 0.03934, QP 0.03934, deconstructSigs 0.04004, NMF 0.05274

### PD24194(optimal GSA error \* 1.05)



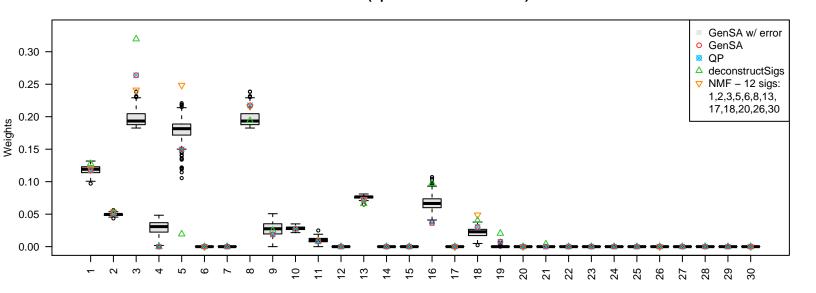
Signatures
GenSA+error(median) 0.01199, GenSA 0.01147, QP 0.01147, deconstructSigs 0.01189, NMF 0.01723

### PD24195(optimal GSA error \* 1.05)



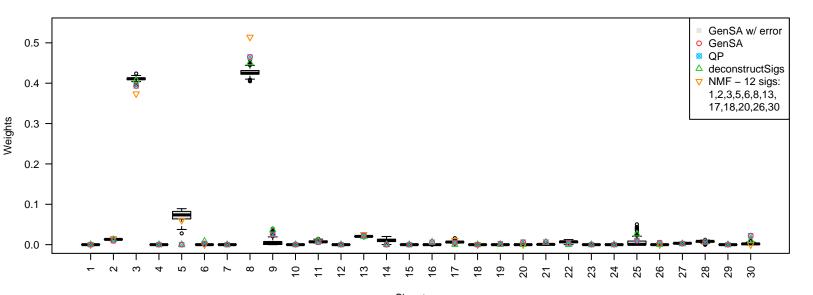
Signatures
GenSA+error(median) 0.02406, GenSA 0.02295, QP 0.02295, deconstructSigs 0.02303, NMF 0.02598

#### PD24196(optimal GSA error \* 1.05)



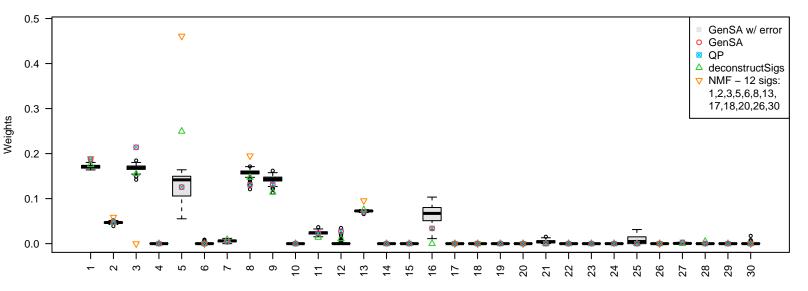
Signatures
GenSA+error(median) 0.02397, GenSA 0.02296, QP 0.02296, deconstructSigs 0.02323, NMF 0.02497

### PD24197(optimal GSA error \* 1.05)



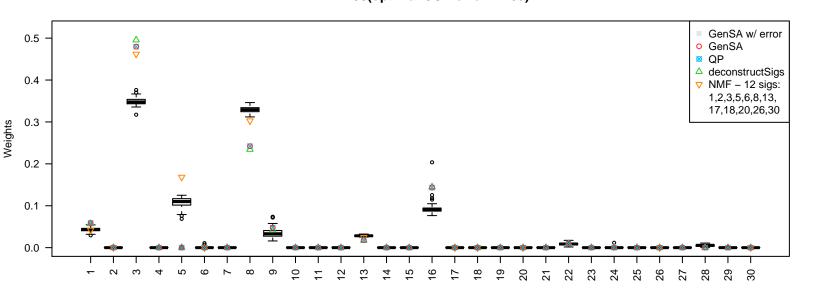
Signatures
GenSA+error(median) 0.01574, GenSA 0.01504, QP 0.01504, deconstructSigs 0.01519, NMF 0.01693

# PD24199(optimal GSA error \* 1.05)



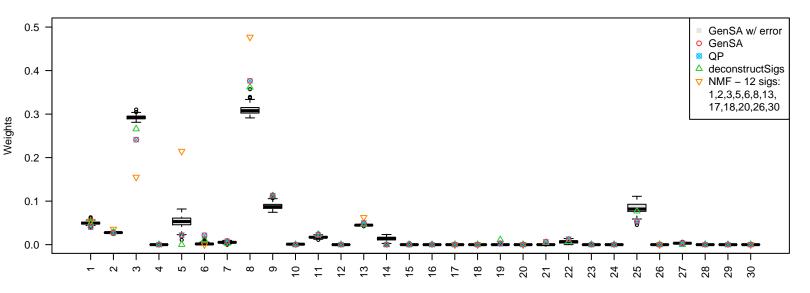
Signatures
GenSA+error(median) 0.01944, GenSA 0.01867, QP 0.01867, deconstructSigs 0.01895, NMF 0.02643

# PD24200(optimal GSA error \* 1.05)



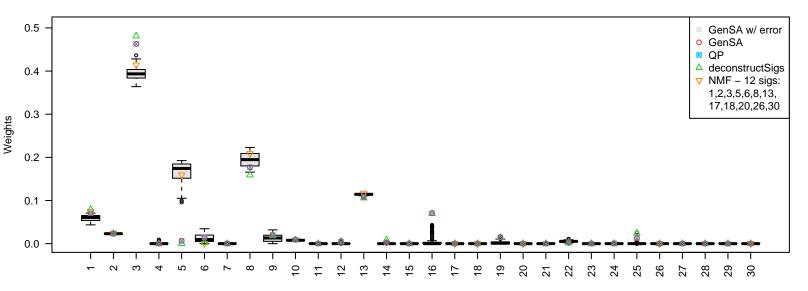
Signatures
GenSA+error(median) 0.03410, GenSA 0.03253, QP 0.03253, deconstructSigs 0.03255, NMF 0.03530

### PD24201(optimal GSA error \* 1.05)



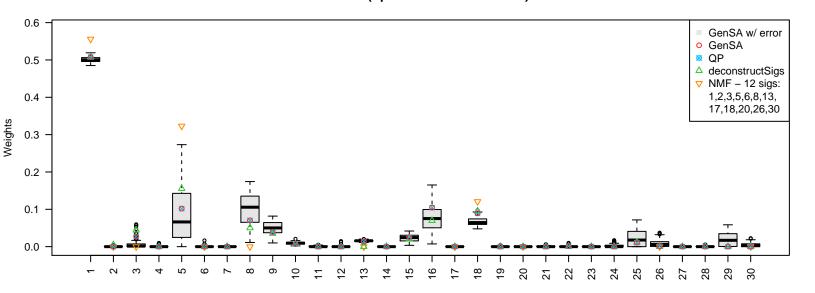
Signatures
GenSA+error(median) 0.01967, GenSA 0.01881, QP 0.01881, deconstructSigs 0.01898, NMF 0.02475

# PD24202(optimal GSA error \* 1.05)



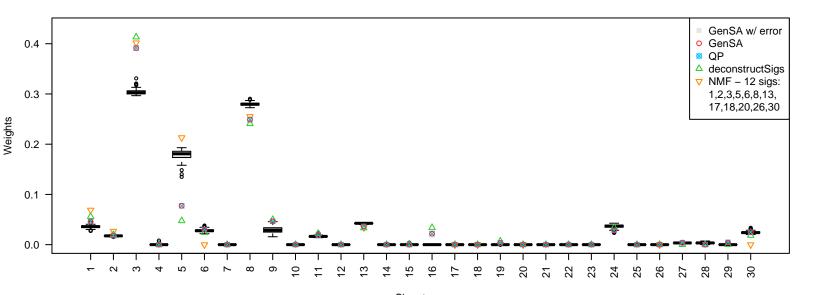
Signatures
GenSA+error(median) 0.01484, GenSA 0.01418, QP 0.01418, deconstructSigs 0.01427, NMF 0.01532

#### PD24204(optimal GSA error \* 1.05)



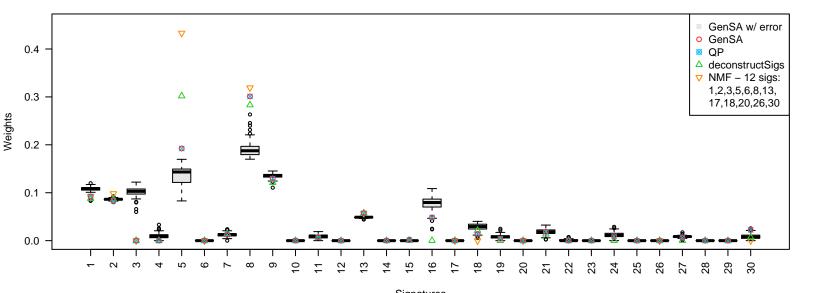
Signatures
GenSA+error(median) 0.02282, GenSA 0.02187, QP 0.02187, deconstructSigs 0.02270, NMF 0.02788

### PD24205(optimal GSA error \* 1.05)



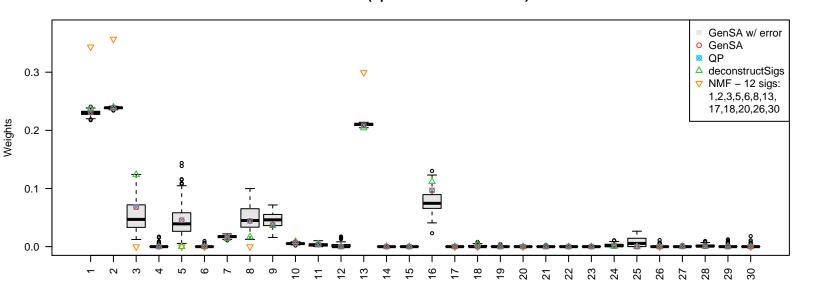
Signatures
GenSA+error(median) 0.01439, GenSA 0.01374, QP 0.01374, deconstructSigs 0.01395, NMF 0.01715

### PD24206(optimal GSA error \* 1.05)



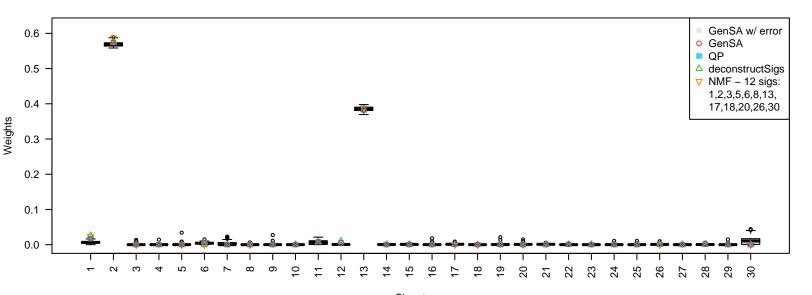
Signatures
GenSA+error(median) 0.02749, GenSA 0.02626, QP 0.02626, deconstructSigs 0.02653, NMF 0.02984

#### PD24207(optimal GSA error \* 1.05)



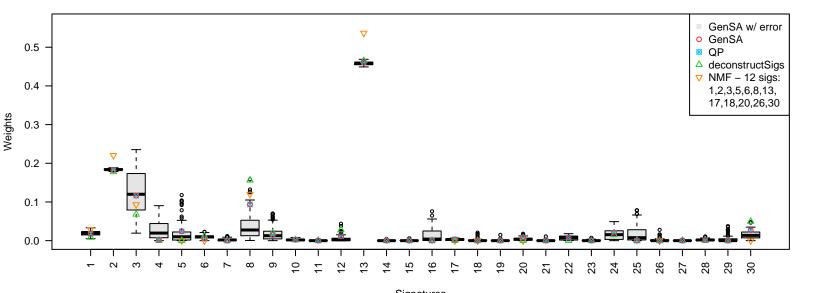
Signatures
GenSA+error(median) 0.01369, GenSA 0.01313, QP 0.01313, deconstructSigs 0.01336, NMF 0.08472

### PD24208(optimal GSA error \* 1.05)



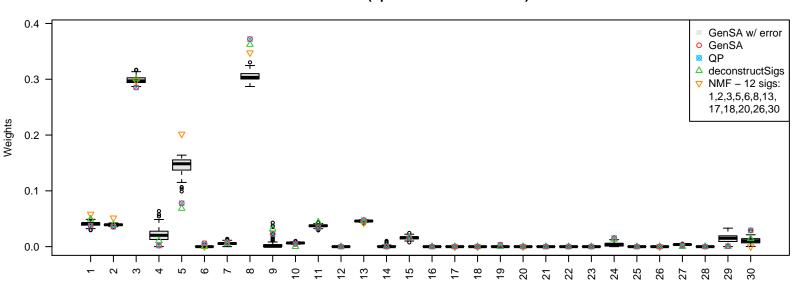
Signatures
GenSA+error(median) 0.02456, GenSA 0.02368, QP 0.02368, deconstructSigs 0.02374, NMF 0.02504

### PD24209(optimal GSA error \* 1.05)



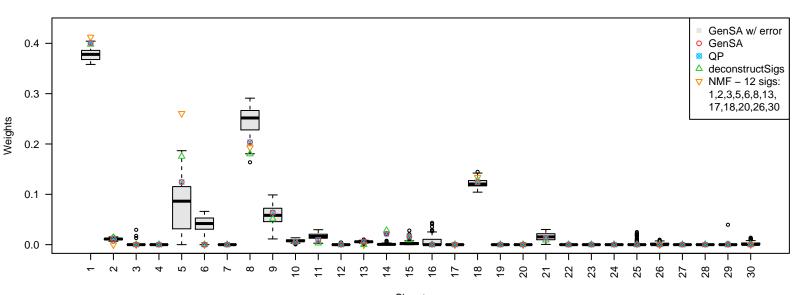
Signatures
GenSA+error(median) 0.02155, GenSA 0.02059, QP 0.02059, deconstructSigs 0.02109, NMF 0.04837

#### PD24212(optimal GSA error \* 1.05)



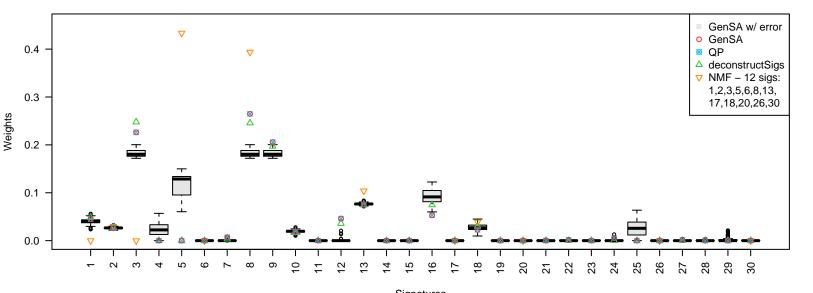
Signatures
GenSA+error(median) 0.01697, GenSA 0.01625, QP 0.01625, deconstructSigs 0.01646, NMF 0.02207

### PD24214(optimal GSA error \* 1.05)



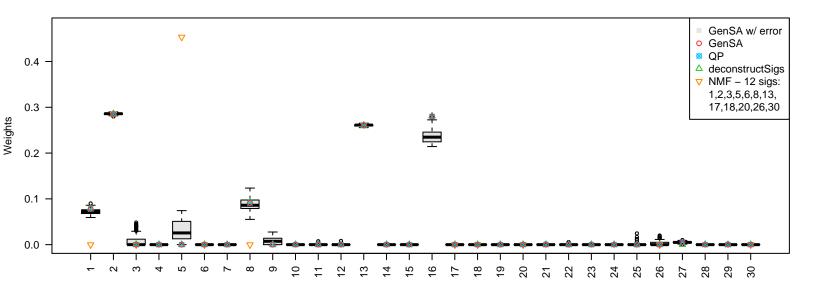
Signatures
GenSA+error(median) 0.02358, GenSA 0.02257, QP 0.02257, deconstructSigs 0.02285, NMF 0.02557

### PD24215(optimal GSA error \* 1.05)



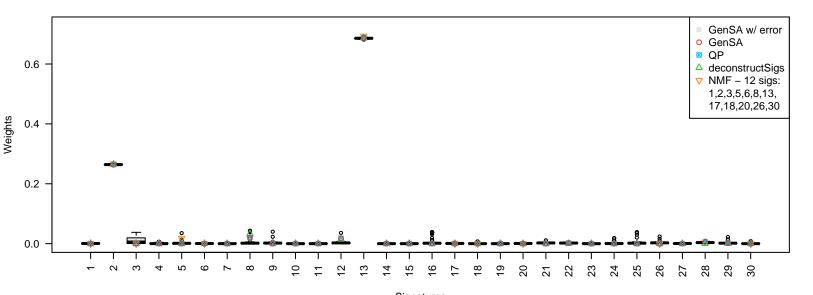
Signatures
GenSA+error(median) 0.03004, GenSA 0.02877, QP 0.02877, deconstructSigs 0.02887, NMF 0.03864

#### PD24216(optimal GSA error \* 1.05)



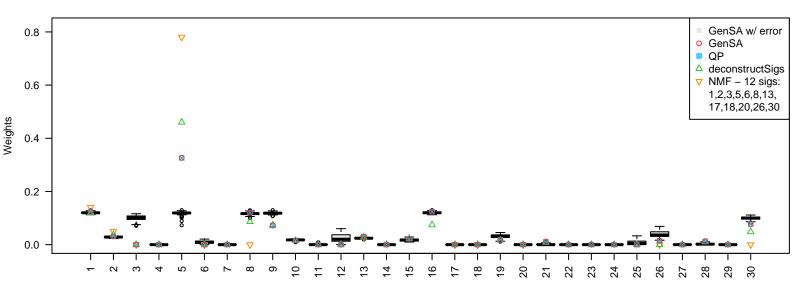
Signatures
GenSA+error(median) 0.01962, GenSA 0.01879, QP 0.01879, deconstructSigs 0.01891, NMF 0.02982

### PD24217(optimal GSA error \* 1.05)



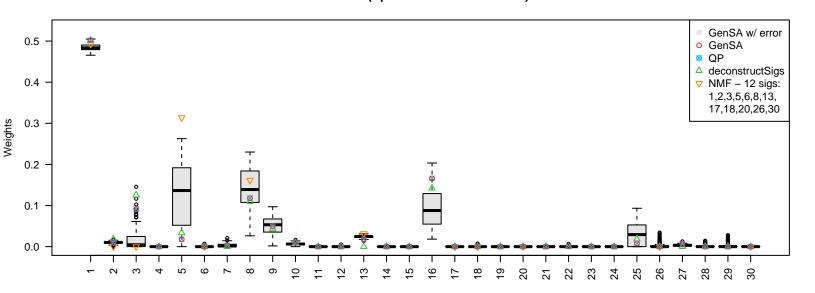
Signatures
GenSA+error(median) 0.01213, GenSA 0.01163, QP 0.01163, deconstructSigs 0.01179, NMF 0.01253

# PD24218(optimal GSA error \* 1.05)



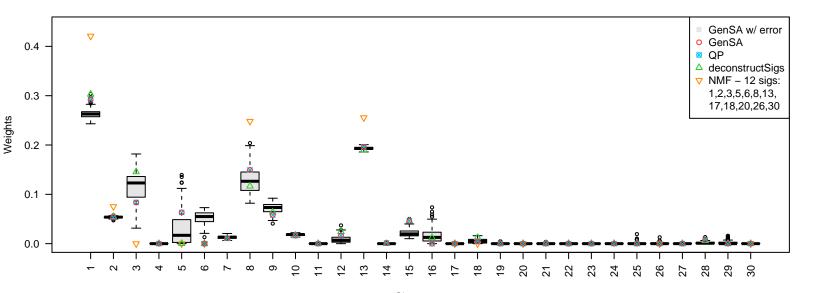
Signatures
GenSA+error(median) 0.02870, GenSA 0.02748, QP 0.02748, deconstructSigs 0.02772, NMF 0.03209

### PD24219(optimal GSA error \* 1.05)



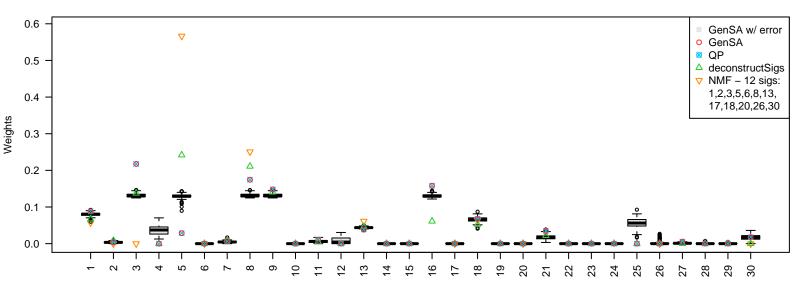
Signatures
GenSA+error(median) 0.02547, GenSA 0.02437, QP 0.02437, deconstructSigs 0.02543, NMF 0.02746

### PD24220(optimal GSA error \* 1.05)



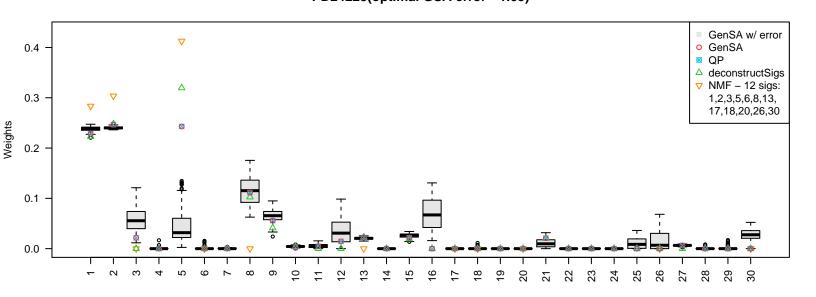
Signatures
GenSA+error(median) 0.02074, GenSA 0.01985, QP 0.01985, deconstructSigs 0.02009, NMF 0.04626

# PD24221(optimal GSA error \* 1.05)



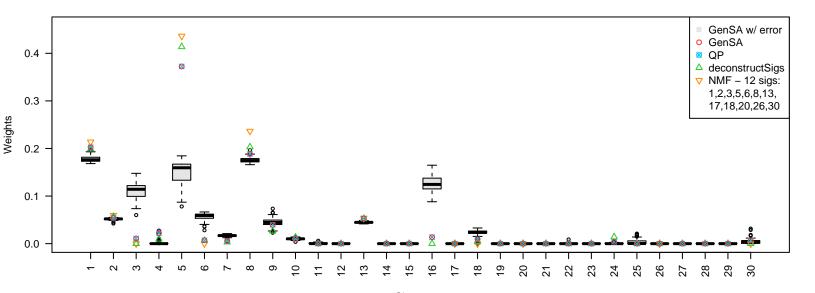
Signatures
GenSA+error(median) 0.03142, GenSA 0.03013, QP 0.03013, deconstructSigs 0.03059, NMF 0.03528

# PD24223(optimal GSA error \* 1.05)



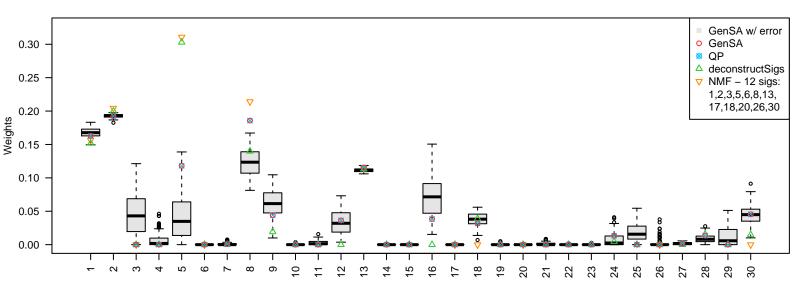
Signatures
GenSA+error(median) 0.02244, GenSA 0.02144, QP 0.02144, deconstructSigs 0.02171, NMF 0.03837

### PD24224(optimal GSA error \* 1.05)



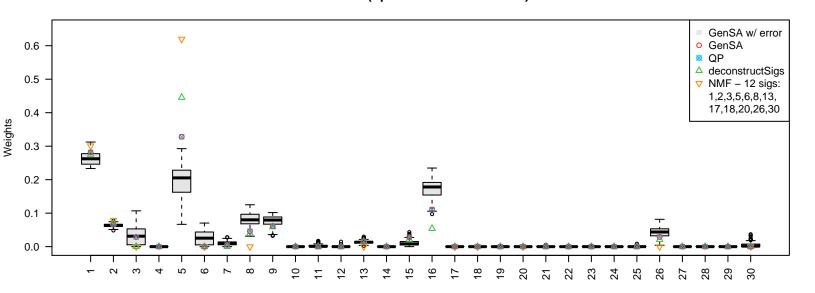
Signatures
GenSA+error(median) 0.02603, GenSA 0.02489, QP 0.02489, deconstructSigs 0.02499, NMF 0.02602

# PD24225(optimal GSA error \* 1.05)



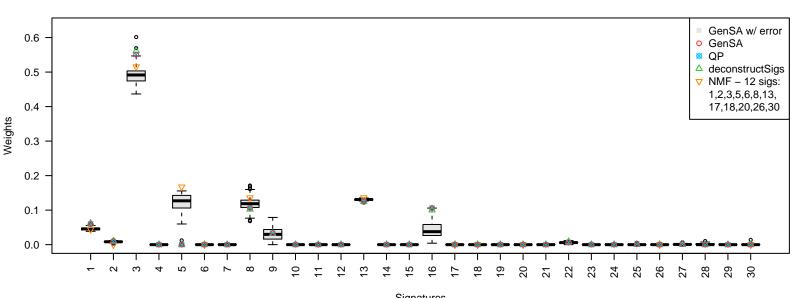
Signatures
GenSA+error(median) 0.02441, GenSA 0.02339, QP 0.02339, deconstructSigs 0.02391, NMF 0.02556

#### PD24302(optimal GSA error \* 1.05)



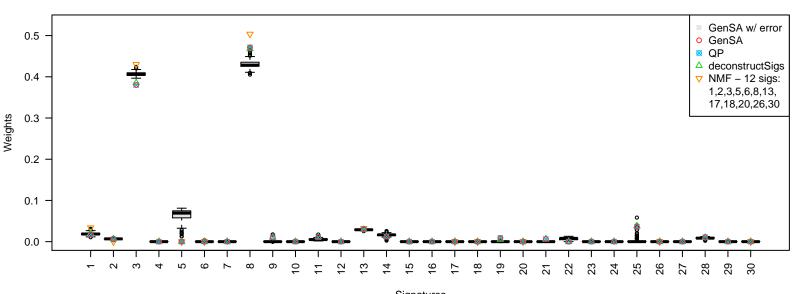
Signatures
GenSA+error(median) 0.03645, GenSA 0.03506, QP 0.03506, deconstructSigs 0.03521, NMF 0.03806

### PD24303(optimal GSA error \* 1.05)



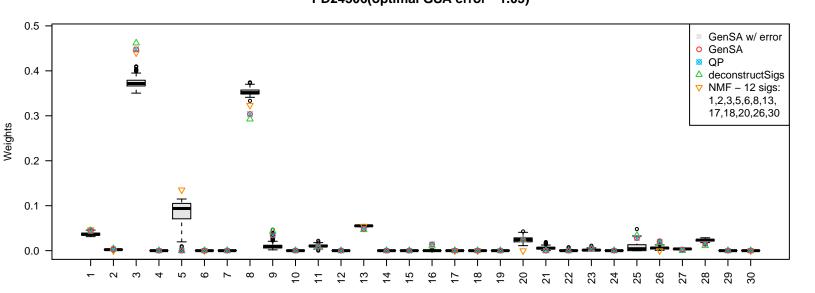
 $Signatures \\ GenSA+error(median)~0.02234,~GenSA~0.02135,~QP~0.02135,~deconstructSigs~0.02137,~NMF~0.02345$ 

# PD24304(optimal GSA error \* 1.05)



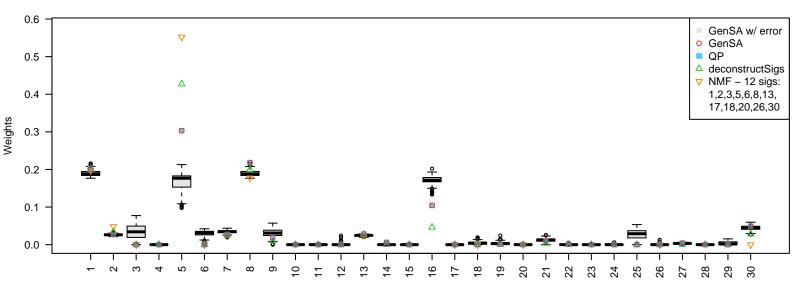
Signatures
GenSA+error(median) 0.01657, GenSA 0.01584, QP 0.01584, deconstructSigs 0.01587, NMF 0.01816

# PD24306(optimal GSA error \* 1.05)



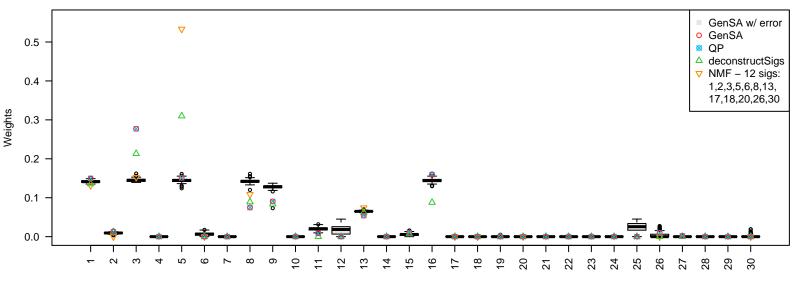
Signatures
GenSA+error(median) 0.02006, GenSA 0.01916, QP 0.01916, deconstructSigs 0.01922, NMF 0.02169

### PD24307(optimal GSA error \* 1.05)



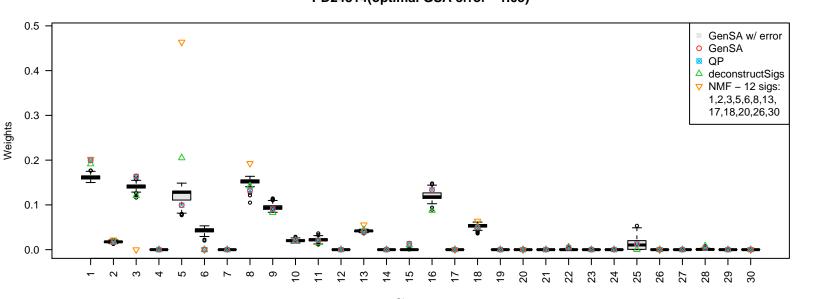
Signatures
GenSA+error(median) 0.02608, GenSA 0.02499, QP 0.02499, deconstructSigs 0.02528, NMF 0.02740

# PD24308(optimal GSA error \* 1.05)



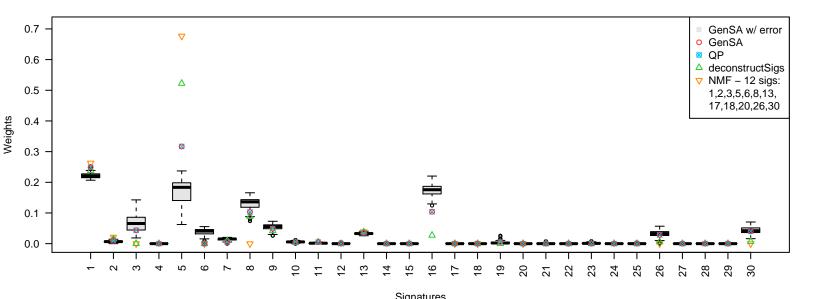
Signatures
GenSA+error(median) 0.03157, GenSA 0.03020, QP 0.03020, deconstructSigs 0.03047, NMF 0.03318

# PD24314(optimal GSA error \* 1.05)



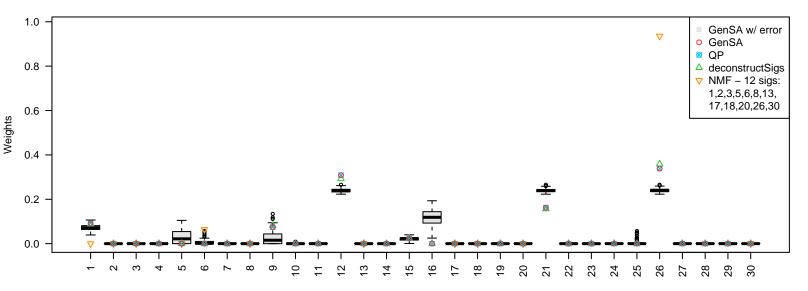
Signatures
GenSA+error(median) 0.02100, GenSA 0.02013, QP 0.02013, deconstructSigs 0.02029, NMF 0.02576

### PD24318(optimal GSA error \* 1.05)



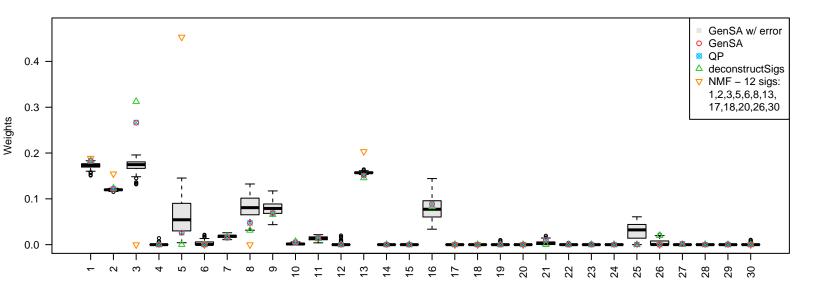
Signatures
GenSA+error(median) 0.02496, GenSA 0.02393, QP 0.02393, deconstructSigs 0.02427, NMF 0.02687

# PD24320(optimal GSA error \* 1.05)



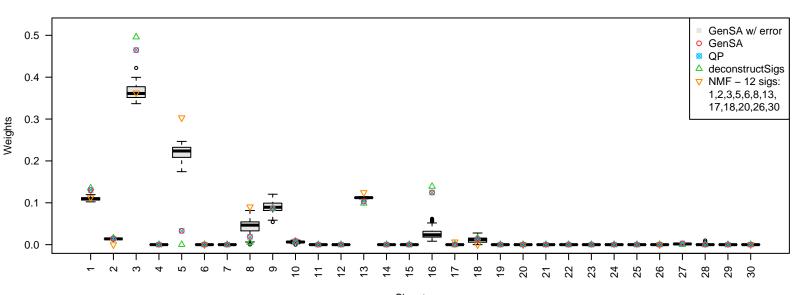
Signatures
GenSA+error(median) 0.04877, GenSA 0.04687, QP 0.04687, deconstructSigs 0.04690, NMF 0.06109

# PD24322(optimal GSA error \* 1.05)



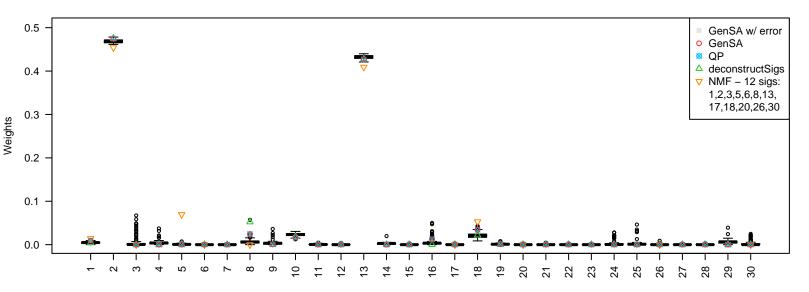
Signatures
GenSA+error(median) 0.02209, GenSA 0.02112, QP 0.02112, deconstructSigs 0.02136, NMF 0.03784

### PD24325(optimal GSA error \* 1.05)



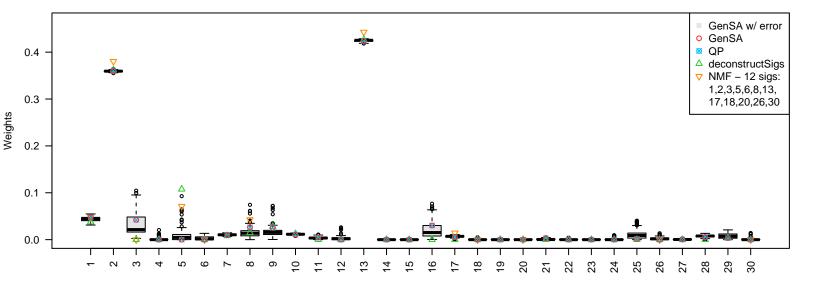
Signatures
GenSA+error(median) 0.02104, GenSA 0.02008, QP 0.02008, deconstructSigs 0.02019, NMF 0.02451

### PD24326(optimal GSA error \* 1.05)



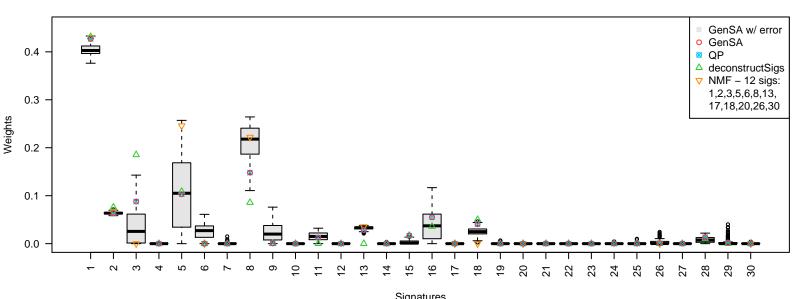
Signatures
GenSA+error(median) 0.02355, GenSA 0.02264, QP 0.02264, deconstructSigs 0.02278, NMF 0.02819

### PD24327(optimal GSA error \* 1.05)



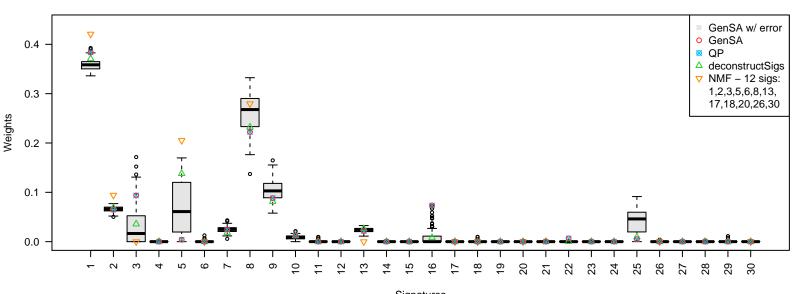
Signatures
GenSA+error(median) 0.01263, GenSA 0.01210, QP 0.01210, deconstructSigs 0.01307, NMF 0.01885

### PD24329(optimal GSA error \* 1.05)



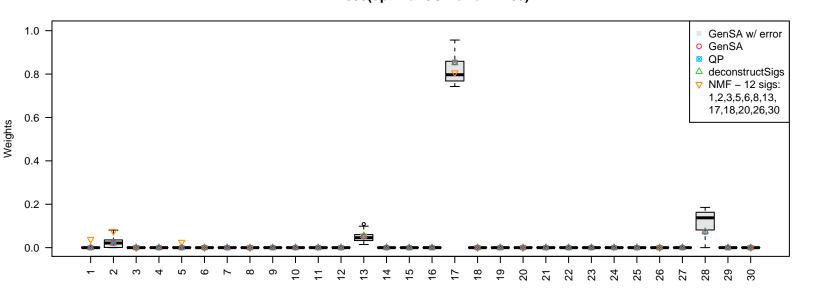
Signatures
GenSA+error(median) 0.02514, GenSA 0.02409, QP 0.02409, deconstructSigs 0.02626, NMF 0.02593

### PD24332(optimal GSA error \* 1.05)



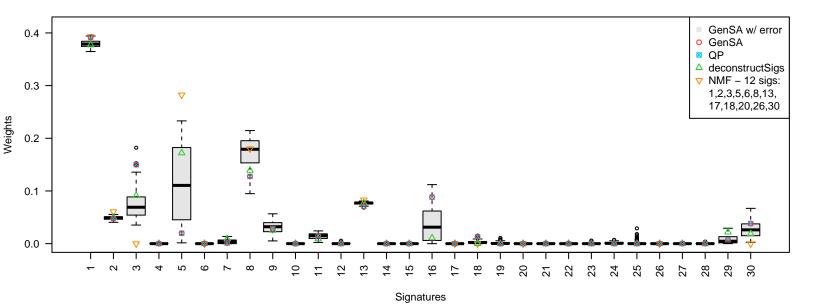
Signatures
GenSA+error(median) 0.03077, GenSA 0.02961, QP 0.02961, deconstructSigs 0.02991, NMF 0.03668

# PD24333(optimal GSA error \* 1.05)



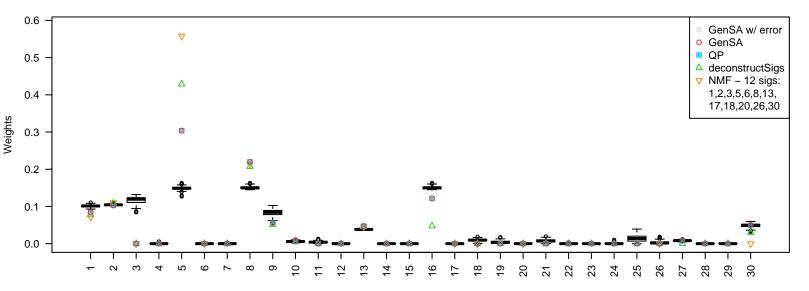
Signatures
GenSA+error(median) 0.09496, GenSA 0.09168, QP 0.09168, deconstructSigs 0.09170, NMF 0.10413

### PD24335(optimal GSA error \* 1.05)



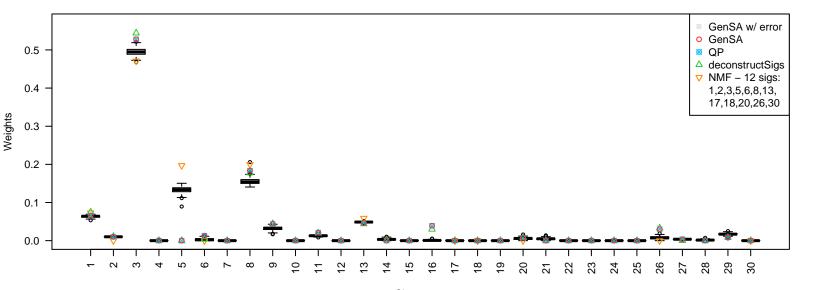
GenSA+error(median) 0.01772, GenSA 0.01693, QP 0.01693, deconstructSigs 0.01740, NMF 0.02014

# PD24336(optimal GSA error \* 1.05)



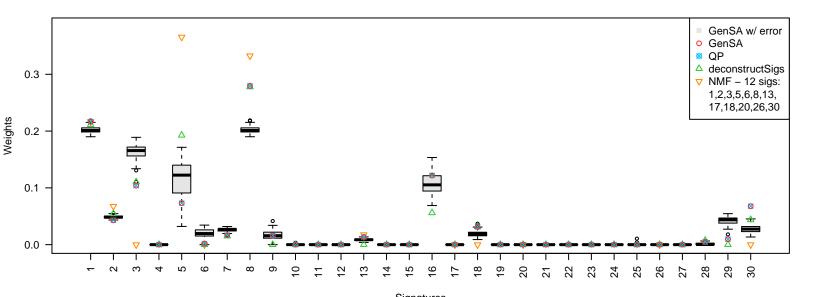
Signatures
GenSA+error(median) 0.02731, GenSA 0.02608, QP 0.02608, deconstructSigs 0.02648, NMF 0.02776

#### PD24337(optimal GSA error \* 1.05)



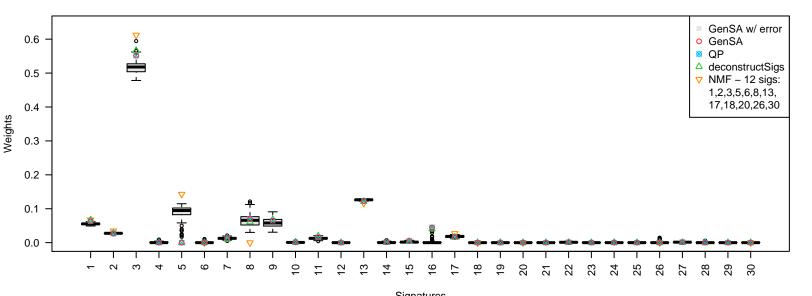
Signatures
GenSA+error(median) 0.01610, GenSA 0.01536, QP 0.01536, deconstructSigs 0.01549, NMF 0.01810

### PD3851(optimal GSA error \* 1.05)



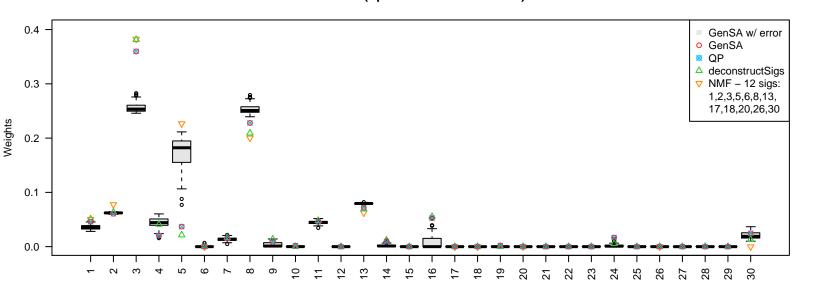
Signatures
GenSA+error(median) 0.02449, GenSA 0.02345, QP 0.02345, deconstructSigs 0.02433, NMF 0.02685

### PD3890(optimal GSA error \* 1.05)



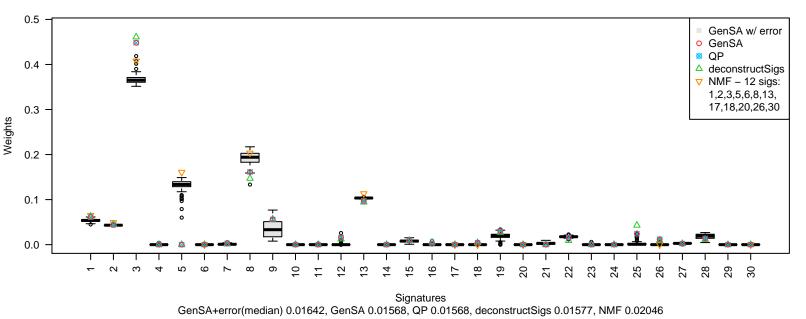
Signatures
GenSA+error(median) 0.01615, GenSA 0.01543, QP 0.01543, deconstructSigs 0.01550, NMF 0.01872

#### PD3904(optimal GSA error \* 1.05)

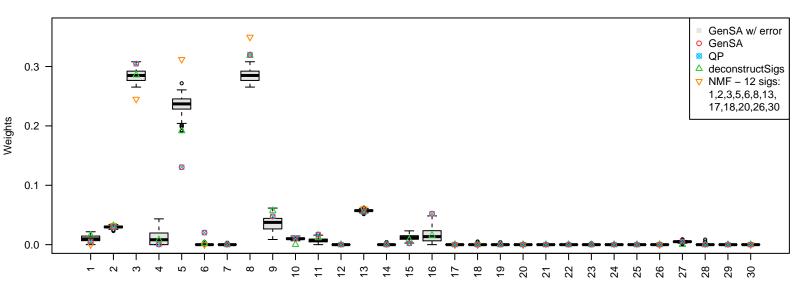


Signatures
GenSA+error(median) 0.01766, GenSA 0.01687, QP 0.01687, deconstructSigs 0.01699, NMF 0.02469

### PD3905(optimal GSA error \* 1.05)

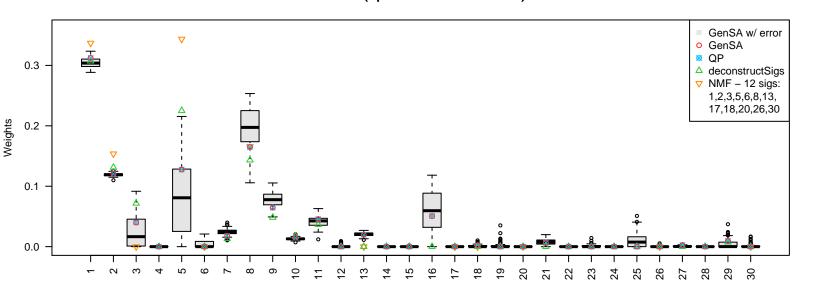


# PD3945(optimal GSA error \* 1.05)



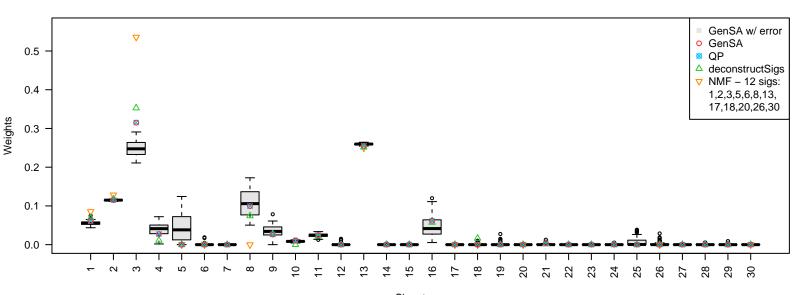
# Signatures GenSA+error(median) 0.01740, GenSA 0.01677, QP 0.01677, deconstructSigs 0.01728, NMF 0.01870

# PD3989(optimal GSA error \* 1.05)



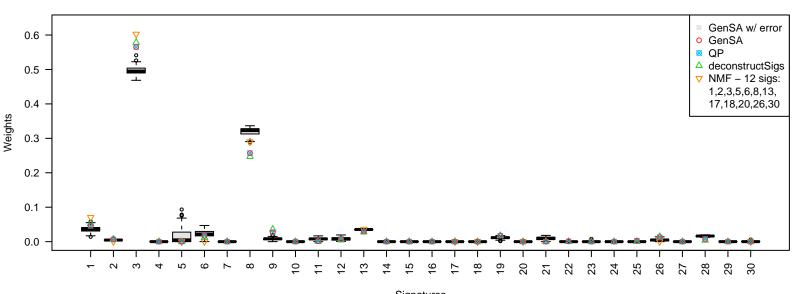
Signatures
GenSA+error(median) 0.02057, GenSA 0.01977, QP 0.01977, deconstructSigs 0.02148, NMF 0.02800

### PD4005(optimal GSA error \* 1.05)



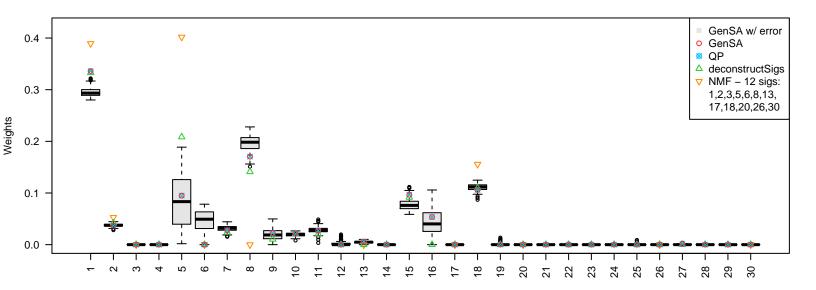
Signatures
GenSA+error(median) 0.01939, GenSA 0.01857, QP 0.01857, deconstructSigs 0.01908, NMF 0.02456

### PD4006(optimal GSA error \* 1.05)



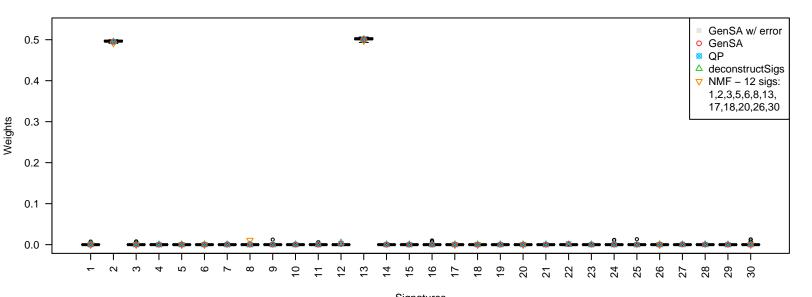
Signatures
GenSA+error(median) 0.01795, GenSA 0.01718, QP 0.01718, deconstructSigs 0.01724, NMF 0.01968

# PD4069(optimal GSA error \* 1.05)



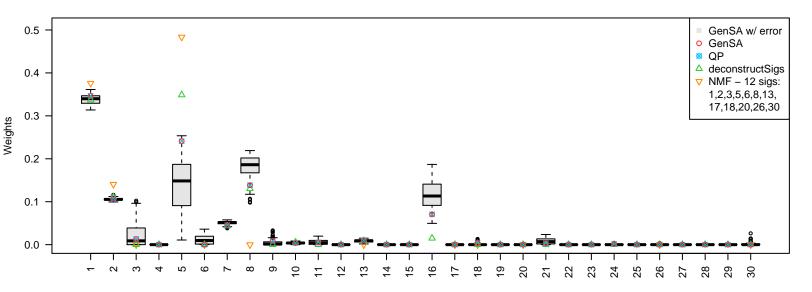
Signatures
GenSA+error(median) 0.03121, GenSA 0.02995, QP 0.02995, deconstructSigs 0.03027, NMF 0.03940

### PD4072(optimal GSA error \* 1.05)



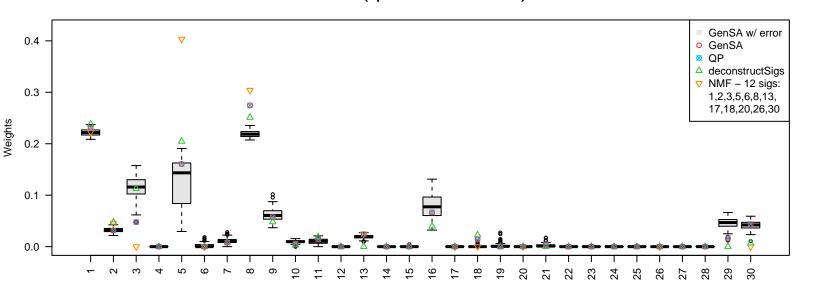
Signatures
GenSA+error(median) 0.01562, GenSA 0.01547, QP 0.01547, deconstructSigs 0.01548, NMF 0.01574

### PD4076(optimal GSA error \* 1.05)



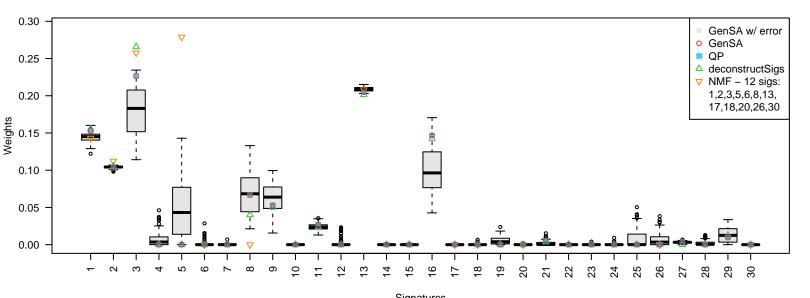
Signatures
GenSA+error(median) 0.02046, GenSA 0.01963, QP 0.01963, deconstructSigs 0.01987, NMF 0.02780

#### PD4085(optimal GSA error \* 1.05)



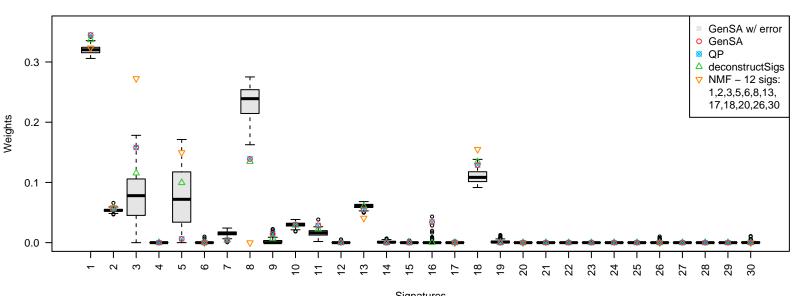
Signatures
GenSA+error(median) 0.02476, GenSA 0.02382, QP 0.02382, deconstructSigs 0.02544, NMF 0.02626

### PD4086(optimal GSA error \* 1.05)



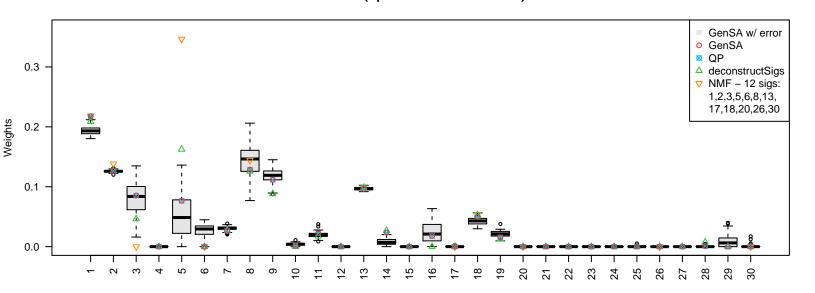
 $Signatures \\ GenSA+error(median)~0.02215,~GenSA~0.02121,~QP~0.02121,~deconstructSigs~0.02139,~NMF~0.02499$ 

### PD4088(optimal GSA error \* 1.05)



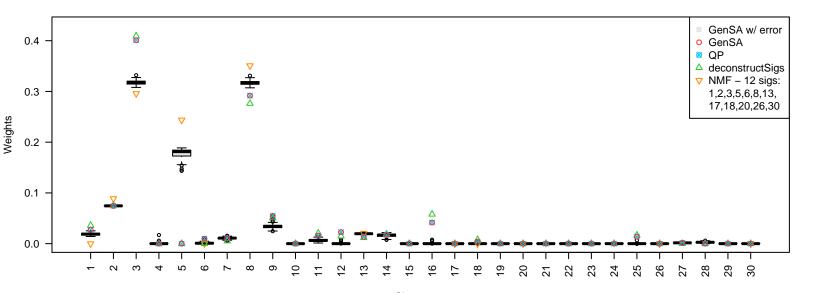
Signatures
GenSA+error(median) 0.02836, GenSA 0.02721, QP 0.02721, deconstructSigs 0.02737, NMF 0.03275

#### PD4103(optimal GSA error \* 1.05)



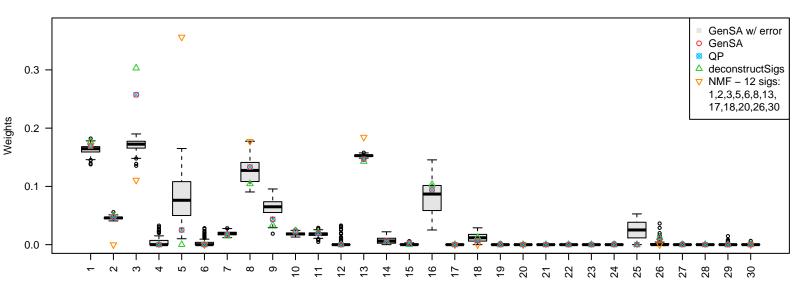
Signatures
GenSA+error(median) 0.02279, GenSA 0.02186, QP 0.02186, deconstructSigs 0.02206, NMF 0.02765

### PD4107(optimal GSA error \* 1.05)



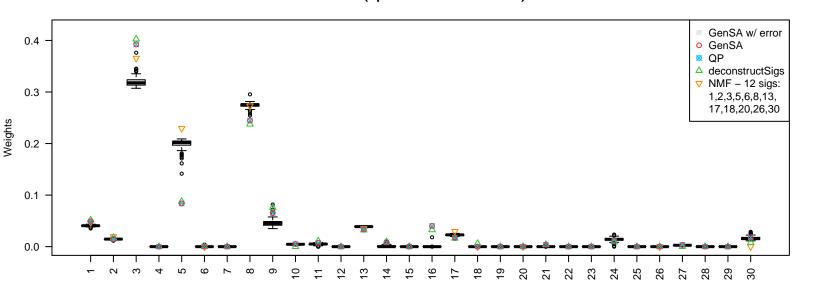
Signatures
GenSA+error(median) 0.01418, GenSA 0.01354, QP 0.01354, deconstructSigs 0.01367, NMF 0.01755

### PD4109(optimal GSA error \* 1.05)



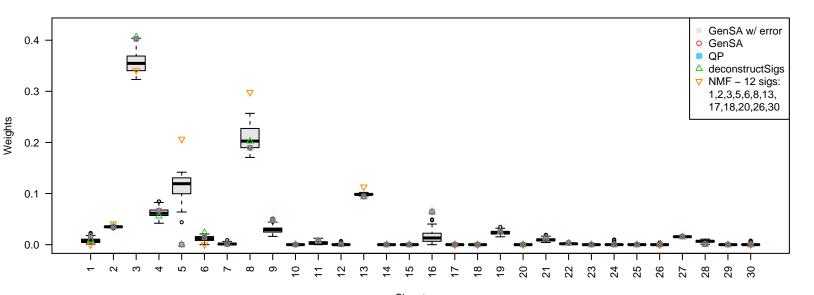
Signatures
GenSA+error(median) 0.02472, GenSA 0.02369, QP 0.02369, deconstructSigs 0.02382, NMF 0.03762

### PD4115(optimal GSA error \* 1.05)



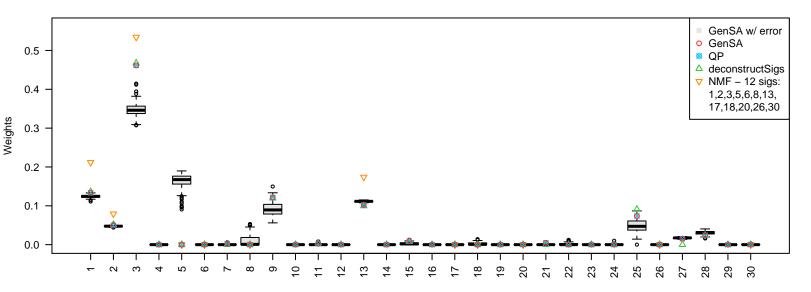
Signatures
GenSA+error(median) 0.01236, GenSA 0.01180, QP 0.01180, deconstructSigs 0.01203, NMF 0.01362

### PD4116(optimal GSA error \* 1.05)



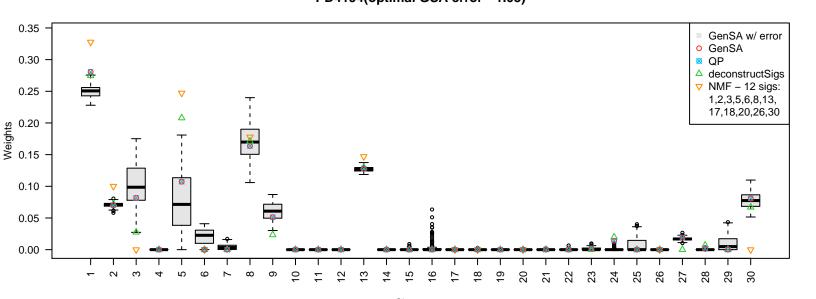
Signatures
GenSA+error(median) 0.01481, GenSA 0.01414, QP 0.01414, deconstructSigs 0.01422, NMF 0.02010

# PD4192(optimal GSA error \* 1.05)



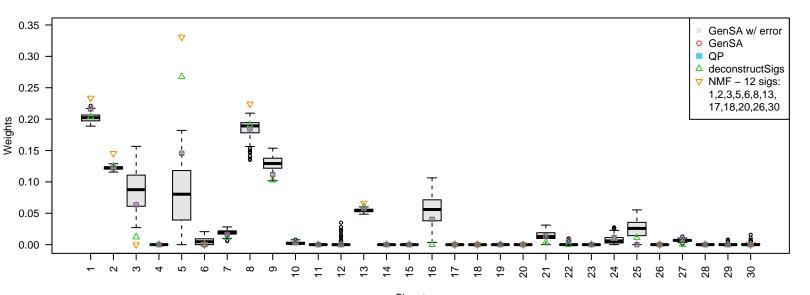
Signatures
GenSA+error(median) 0.02962, GenSA 0.02829, QP 0.02829, deconstructSigs 0.02883, NMF 0.05694

# PD4194(optimal GSA error \* 1.05)



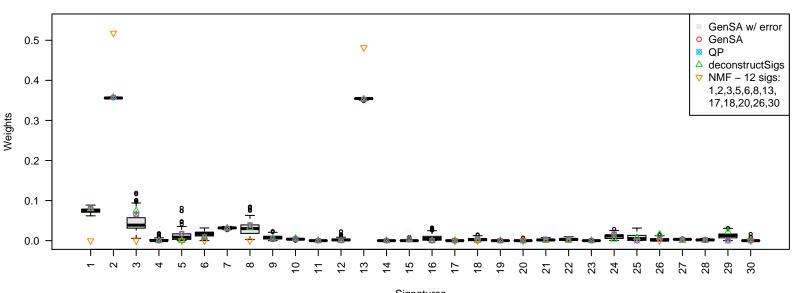
Signatures
GenSA+error(median) 0.02924, GenSA 0.02807, QP 0.02807, deconstructSigs 0.02933, NMF 0.03560

### PD4198(optimal GSA error \* 1.05)



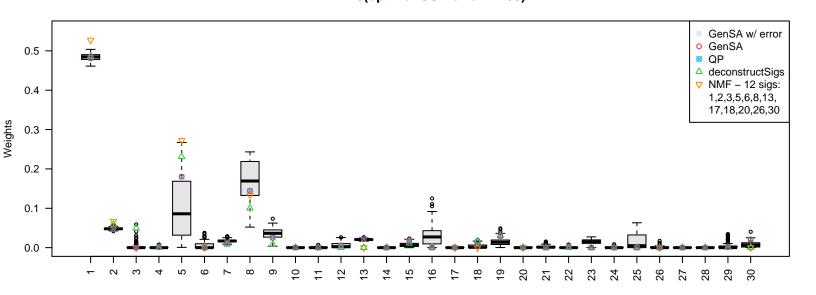
Signatures
GenSA+error(median) 0.02415, GenSA 0.02325, QP 0.02325, deconstructSigs 0.02376, NMF 0.02901

# PD4199(optimal GSA error \* 1.05)



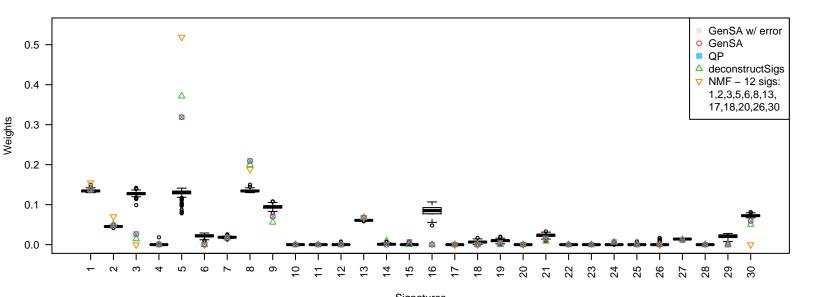
Signatures
GenSA+error(median) 0.01082, GenSA 0.01035, QP 0.01035, deconstructSigs 0.01074, NMF 0.11098

# PD4225(optimal GSA error \* 1.05)



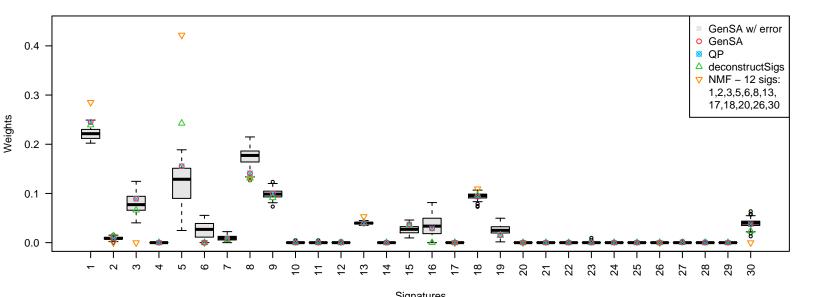
Signatures
GenSA+error(median) 0.02506, GenSA 0.02406, QP 0.02406, deconstructSigs 0.02556, NMF 0.02801

### PD4248(optimal GSA error \* 1.05)



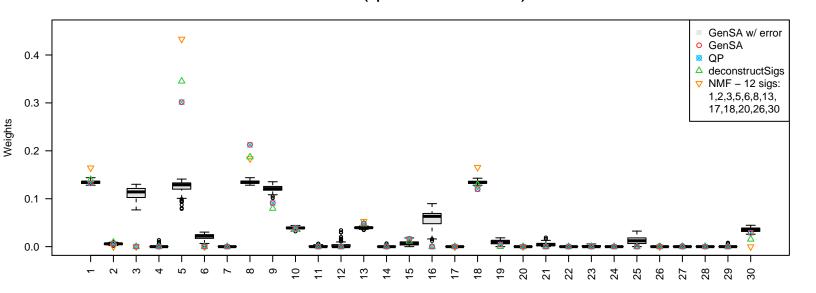
Signatures
GenSA+error(median) 0.02389, GenSA 0.02281, QP 0.02281, deconstructSigs 0.02296, NMF 0.02667

# PD4252(optimal GSA error \* 1.05)



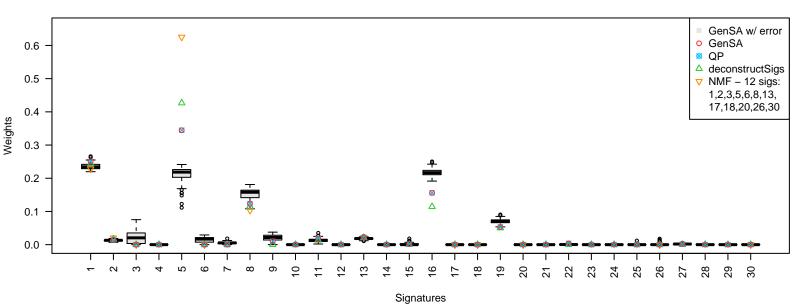
Signatures
GenSA+error(median) 0.02357, GenSA 0.02269, QP 0.02269, deconstructSigs 0.02283, NMF 0.02858

#### PD4255(optimal GSA error \* 1.05)



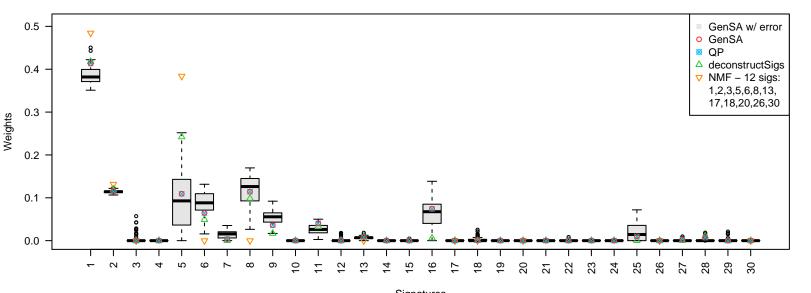
Signatures
GenSA+error(median) 0.03057, GenSA 0.02922, QP 0.02922, deconstructSigs 0.02938, NMF 0.03454

### PD4261(optimal GSA error \* 1.05)



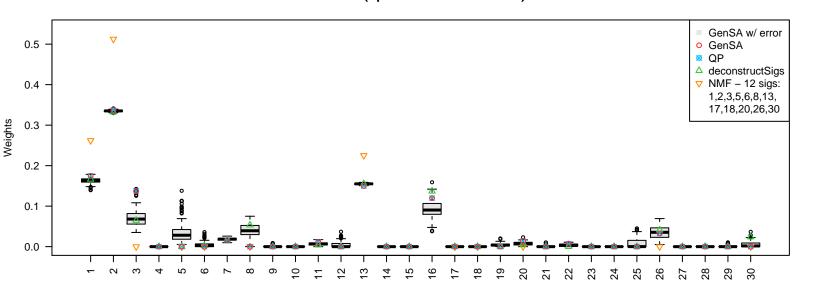
GenSA+error(median) 0.02640, GenSA 0.02537, QP 0.02537, deconstructSigs 0.02553, NMF 0.02807

## PD4264(optimal GSA error \* 1.05)



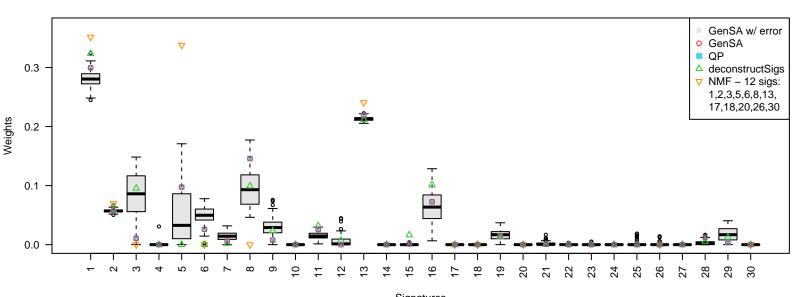
Signatures
GenSA+error(median) 0.02758, GenSA 0.02659, QP 0.02659, deconstructSigs 0.02691, NMF 0.03164

### PD4266(optimal GSA error \* 1.05)



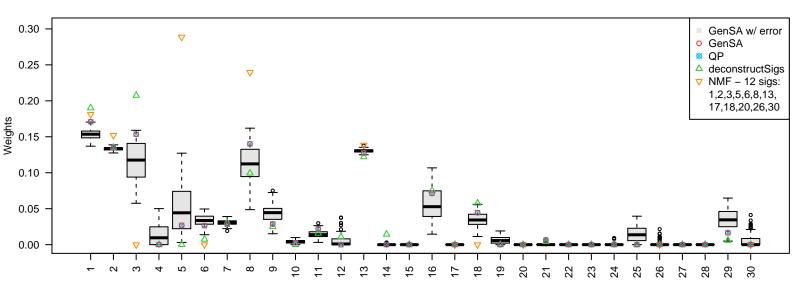
Signatures
GenSA+error(median) 0.02113, GenSA 0.02021, QP 0.02021, deconstructSigs 0.02099, NMF 0.10329

### PD4267(optimal GSA error \* 1.05)



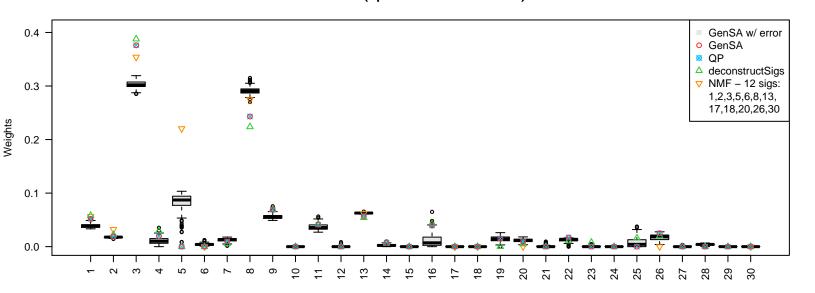
 $Signatures \\ GenSA+error(median)~0.02500,~GenSA~0.02397,~QP~0.02397,~deconstructSigs~0.02437,~NMF~0.03129$ 

## PD4315(optimal GSA error \* 1.05)



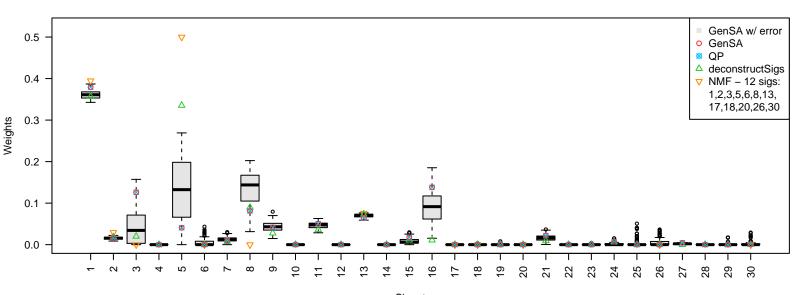
Signatures
GenSA+error(median) 0.02198, GenSA 0.02107, QP 0.02107, deconstructSigs 0.02144, NMF 0.02644

### PD4604(optimal GSA error \* 1.05)



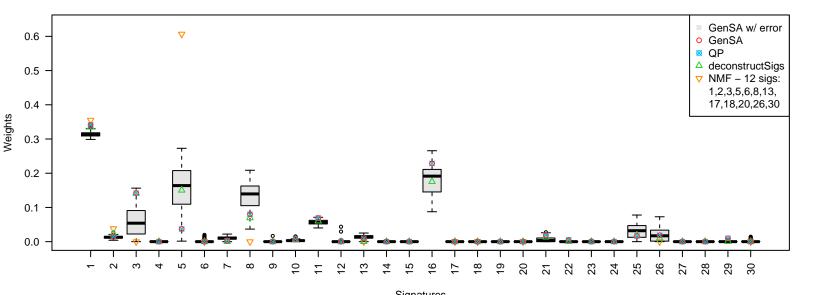
Signatures
GenSA+error(median) 0.02111, GenSA 0.02015, QP 0.02015, deconstructSigs 0.02030, NMF 0.02615

### PD4605(optimal GSA error \* 1.05)



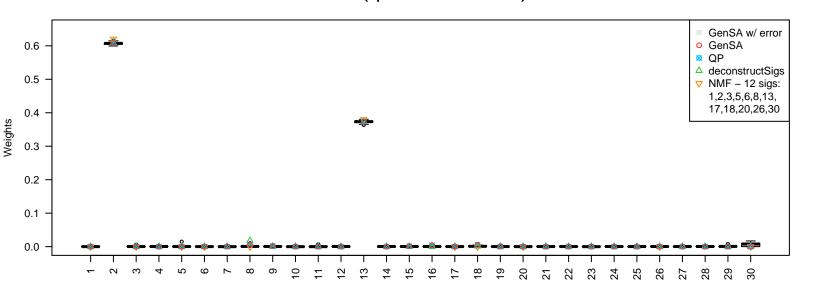
Signatures
GenSA+error(median) 0.02784, GenSA 0.02677, QP 0.02677, deconstructSigs 0.02762, NMF 0.03196

## PD4606(optimal GSA error \* 1.05)



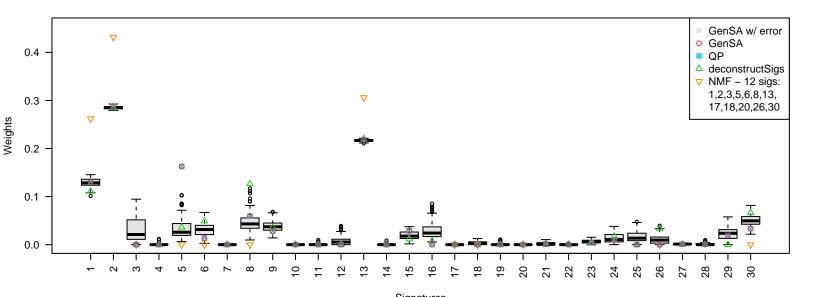
Signatures
GenSA+error(median) 0.02985, GenSA 0.02870, QP 0.02870, deconstructSigs 0.02921, NMF 0.03630

### PD4607(optimal GSA error \* 1.05)



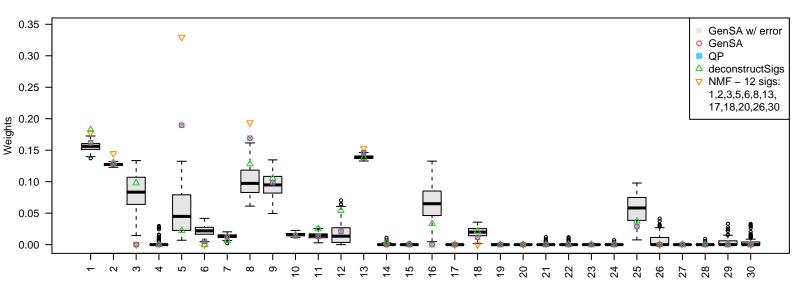
Signatures
GenSA+error(median) 0.01600, GenSA 0.01545, QP 0.01545, deconstructSigs 0.01548, NMF 0.01733

### PD4613(optimal GSA error \* 1.05)



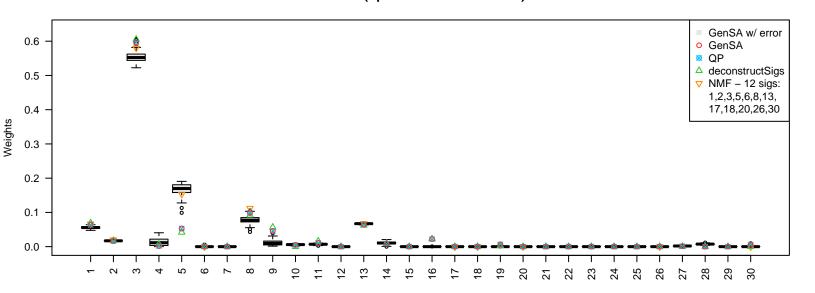
 $Signatures \\ GenSA+error(median)~0.02165,~GenSA~0.02068,~QP~0.02068,~deconstructSigs~0.02150,~NMF~0.09692$ 

## PD4826(optimal GSA error \* 1.05)



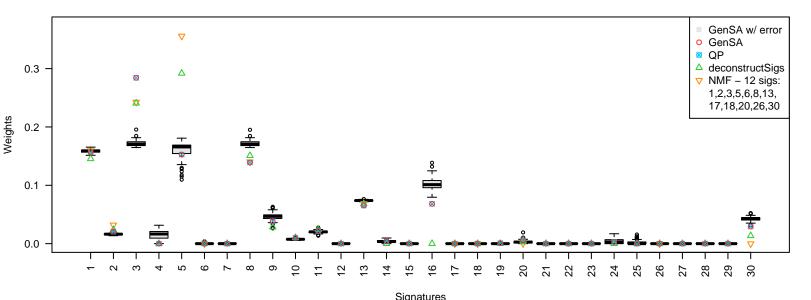
Signatures
GenSA+error(median) 0.02528, GenSA 0.02418, QP 0.02418, deconstructSigs 0.02467, NMF 0.02848

### PD4833(optimal GSA error \* 1.05)



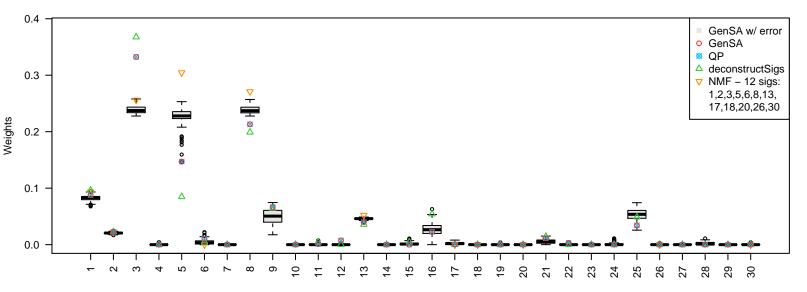
Signatures
GenSA+error(median) 0.01557, GenSA 0.01490, QP 0.01490, deconstructSigs 0.01505, NMF 0.01621

### PD4836(optimal GSA error \* 1.05)



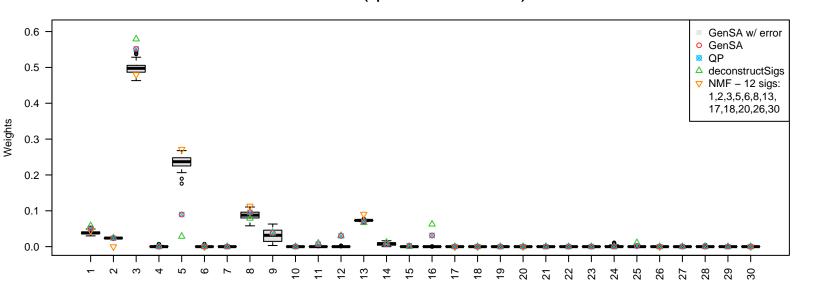
Signatures
GenSA+error(median) 0.02220, GenSA 0.02121, QP 0.02121, deconstructSigs 0.02147, NMF 0.02314

## PD4841(optimal GSA error \* 1.05)



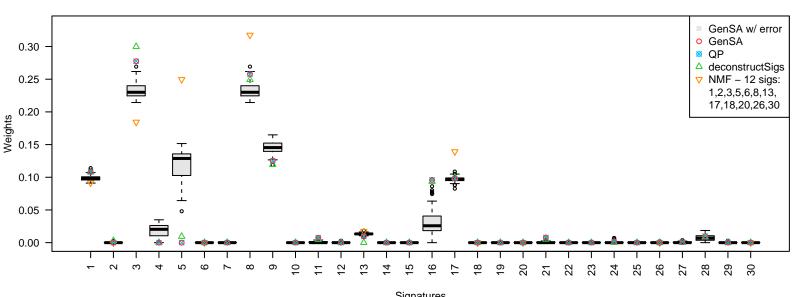
Signatures
GenSA+error(median) 0.01804, GenSA 0.01727, QP 0.01727, deconstructSigs 0.01741, NMF 0.01961

### PD4844(optimal GSA error \* 1.05)



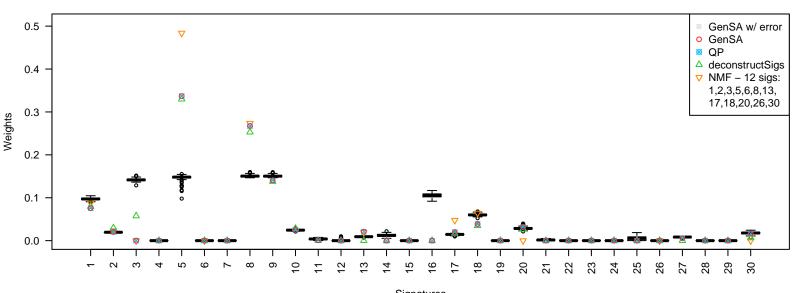
Signatures
GenSA+error(median) 0.01434, GenSA 0.01373, QP 0.01373, deconstructSigs 0.01385, NMF 0.01828

### PD4845(optimal GSA error \* 1.05)



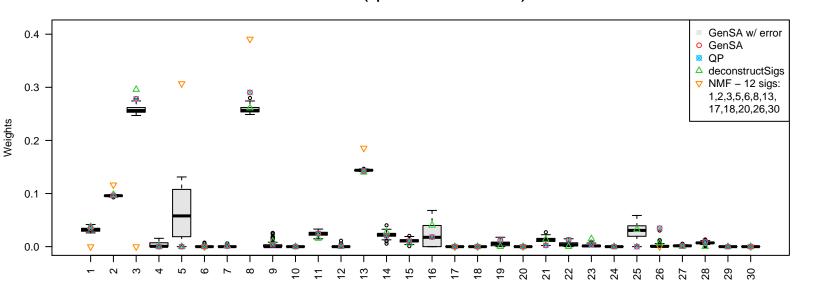
Signatures
GenSA+error(median) 0.01820, GenSA 0.01745, QP 0.01745, deconstructSigs 0.01787, NMF 0.02185

# PD4847(optimal GSA error \* 1.05)



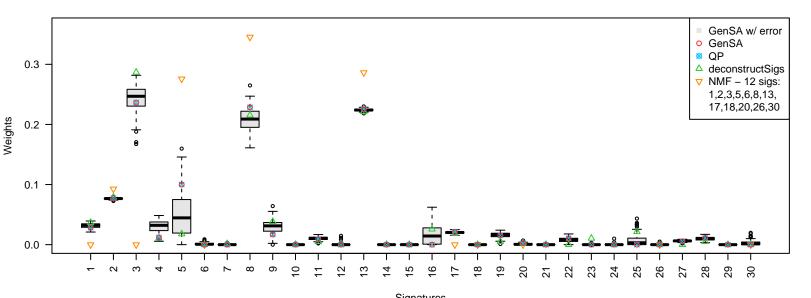
Signatures
GenSA+error(median) 0.02860, GenSA 0.02728, QP 0.02728, deconstructSigs 0.02837, NMF 0.03151

# PD4872(optimal GSA error \* 1.05)



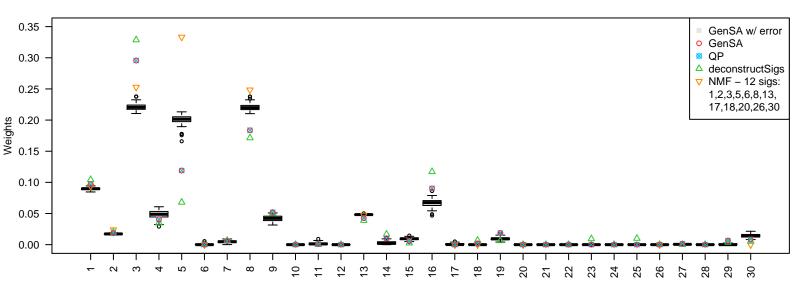
Signatures
GenSA+error(median) 0.01501, GenSA 0.01436, QP 0.01436, deconstructSigs 0.01491, NMF 0.02828

### PD4874(optimal GSA error \* 1.05)



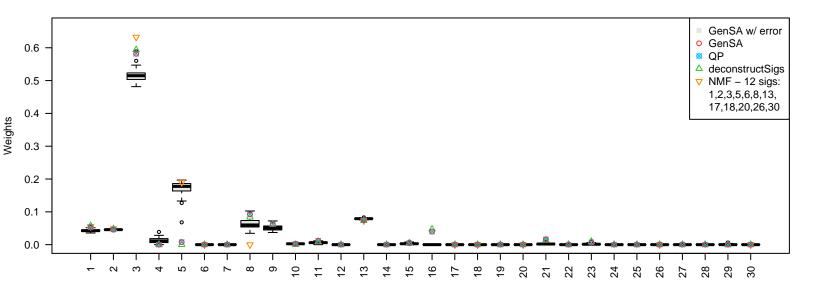
Signatures
GenSA+error(median) 0.01306, GenSA 0.01252, QP 0.01252, deconstructSigs 0.01343, NMF 0.03196

## PD4875(optimal GSA error \* 1.05)



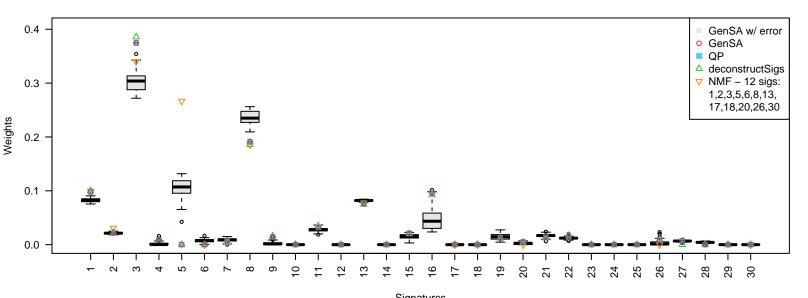
Signatures
GenSA+error(median) 0.01263, GenSA 0.01207, QP 0.01207, deconstructSigs 0.01234, NMF 0.01472

### PD4876(optimal GSA error \* 1.05)



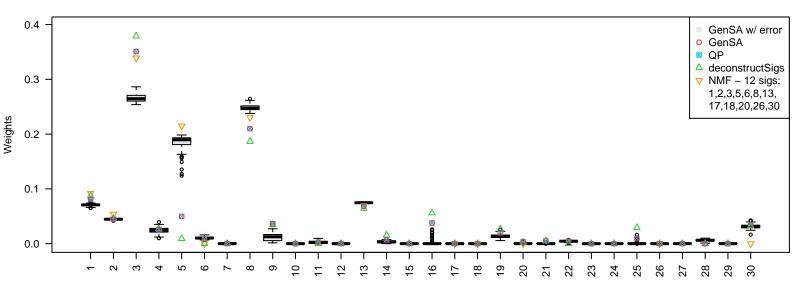
Signatures
GenSA+error(median) 0.01748, GenSA 0.01672, QP 0.01672, deconstructSigs 0.01680, NMF 0.01947

### PD4951(optimal GSA error \* 1.05)



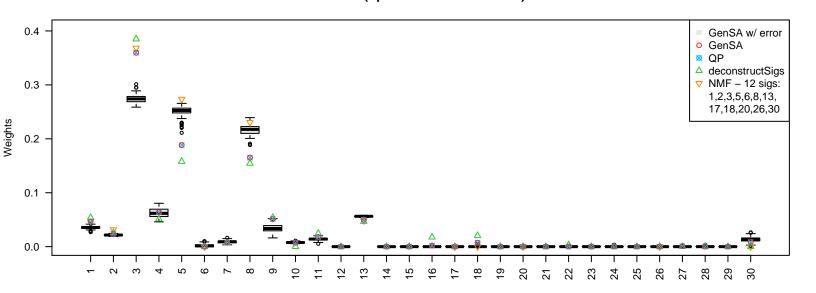
Signatures
GenSA+error(median) 0.01926, GenSA 0.01839, QP 0.01839, deconstructSigs 0.01857, NMF 0.02264

# PD4952(optimal GSA error \* 1.05)



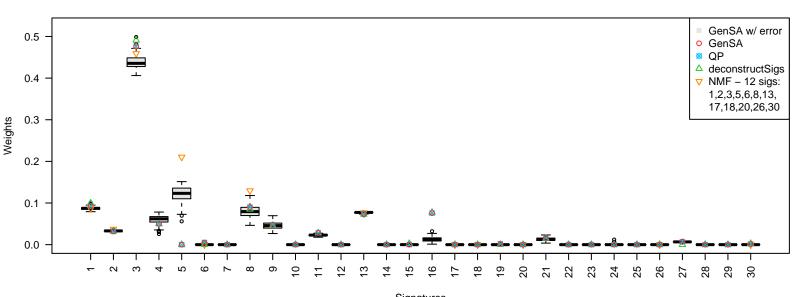
Signatures
GenSA+error(median) 0.01351, GenSA 0.01289, QP 0.01289, deconstructSigs 0.01304, NMF 0.01526

### PD4953(optimal GSA error \* 1.05)



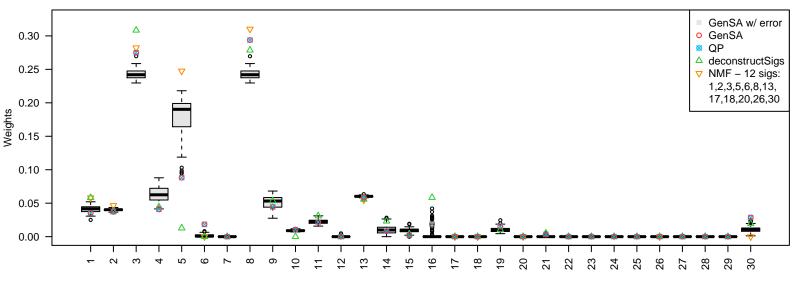
Signatures
GenSA+error(median) 0.01561, GenSA 0.01491, QP 0.01491, deconstructSigs 0.01517, NMF 0.01859

### PD4954(optimal GSA error \* 1.05)



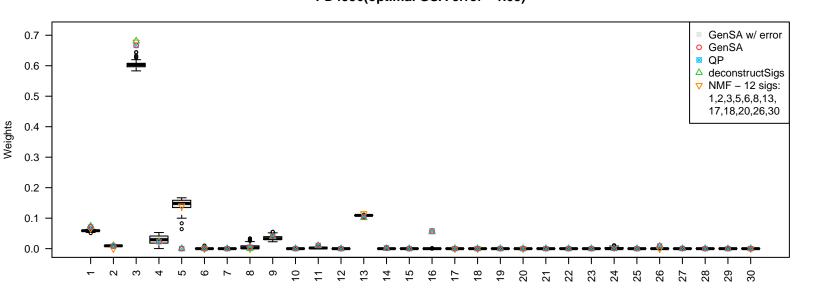
Signatures
GenSA+error(median) 0.01585, GenSA 0.01514, QP 0.01514, deconstructSigs 0.01541, NMF 0.01812

## PD4955(optimal GSA error \* 1.05)



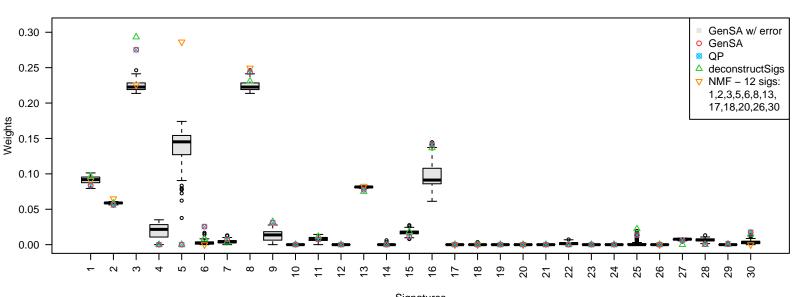
Signatures
GenSA+error(median) 0.01612, GenSA 0.01544, QP 0.01544, deconstructSigs 0.01606, NMF 0.02007

# PD4956(optimal GSA error \* 1.05)



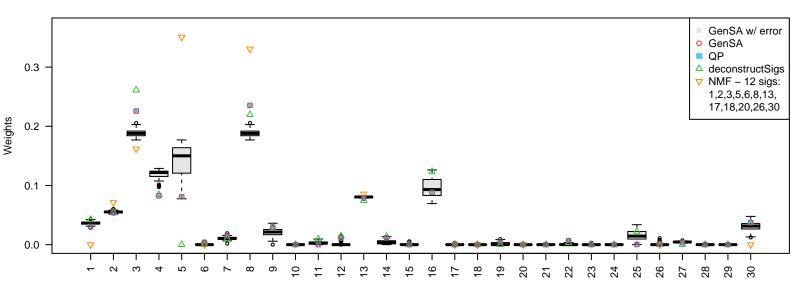
Signatures
GenSA+error(median) 0.01886, GenSA 0.01802, QP 0.01802, deconstructSigs 0.01807, NMF 0.02003

### PD4957(optimal GSA error \* 1.05)



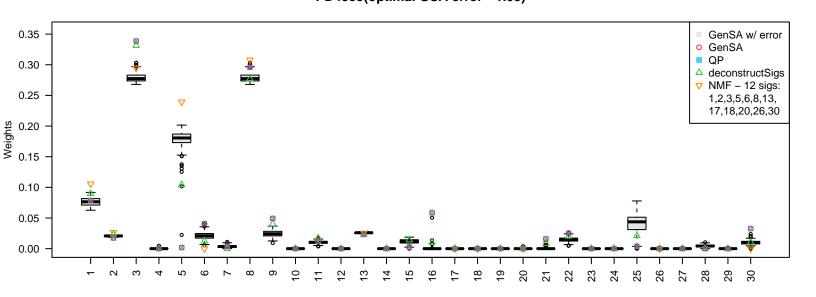
Signatures
GenSA+error(median) 0.01660, GenSA 0.01586, QP 0.01586, deconstructSigs 0.01612, NMF 0.01822

## PD4958(optimal GSA error \* 1.05)



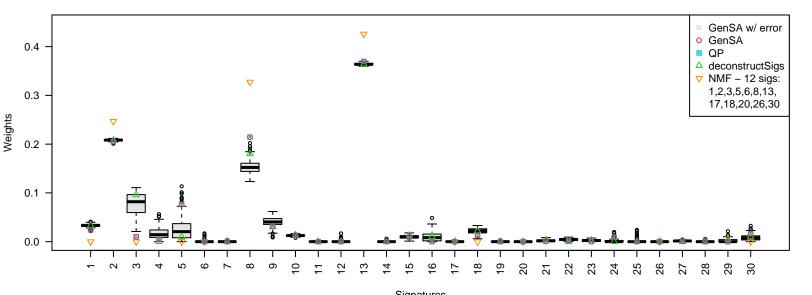
Signatures
GenSA+error(median) 0.01642, GenSA 0.01571, QP 0.01571, deconstructSigs 0.01597, NMF 0.02052

# PD4959(optimal GSA error \* 1.05)



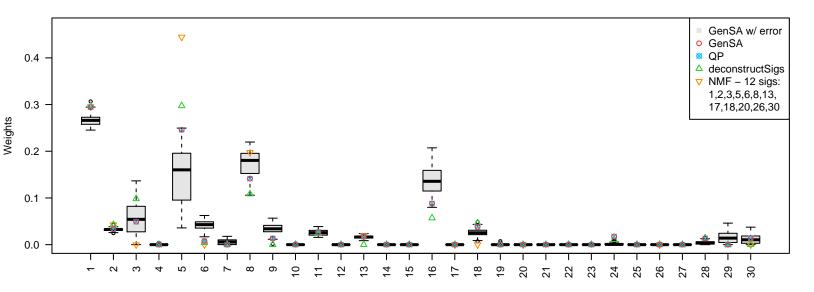
Signatures
GenSA+error(median) 0.01767, GenSA 0.01694, QP 0.01694, deconstructSigs 0.01726, NMF 0.02023

### PD4962(optimal GSA error \* 1.05)



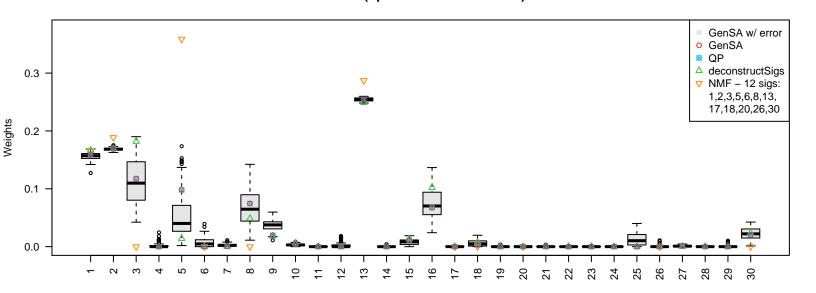
Signatures
GenSA+error(median) 0.01627, GenSA 0.01558, QP 0.01558, deconstructSigs 0.01617, NMF 0.04177

## PD4965(optimal GSA error \* 1.05)



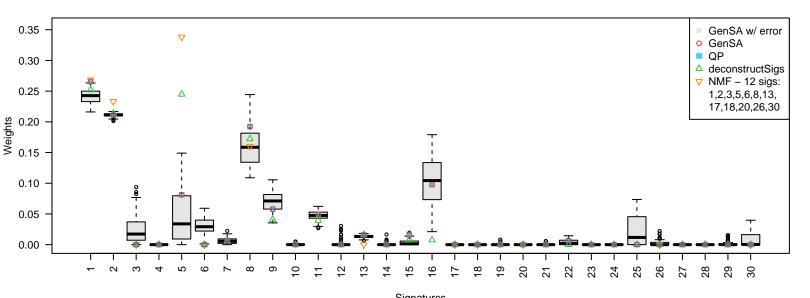
Signatures
GenSA+error(median) 0.02421, GenSA 0.02325, QP 0.02325, deconstructSigs 0.02415, NMF 0.02594

### PD4967(optimal GSA error \* 1.05)



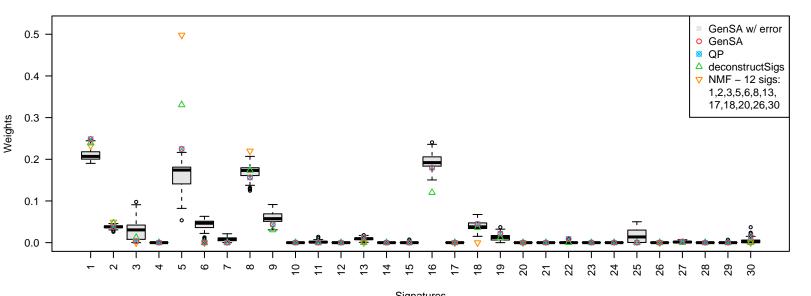
Signatures
GenSA+error(median) 0.01675, GenSA 0.01603, QP 0.01603, deconstructSigs 0.01631, NMF 0.02569

### PD4968(optimal GSA error \* 1.05)



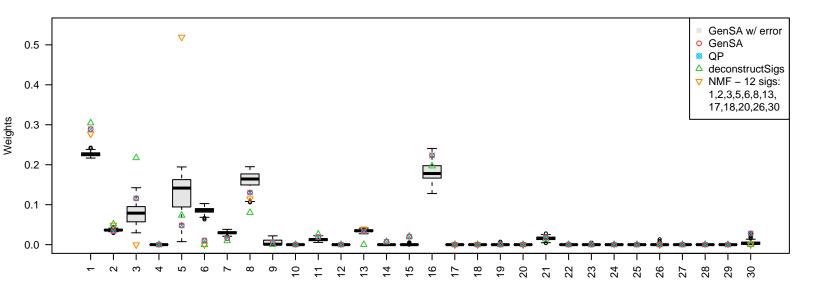
Signatures
GenSA+error(median) 0.02765, GenSA 0.02652, QP 0.02652, deconstructSigs 0.02705, NMF 0.03057

## PD4969(optimal GSA error \* 1.05)



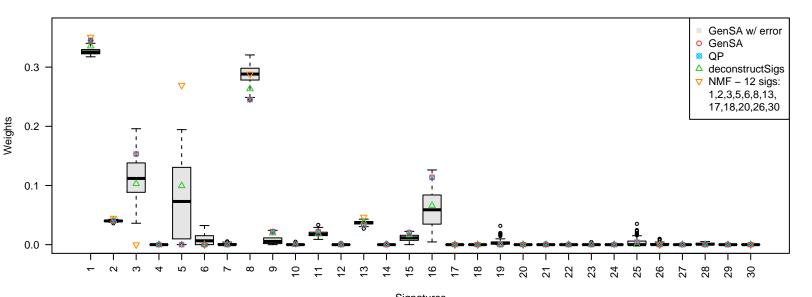
Signatures
GenSA+error(median) 0.03510, GenSA 0.03377, QP 0.03377, deconstructSigs 0.03437, NMF 0.03617

### PD4970(optimal GSA error \* 1.05)



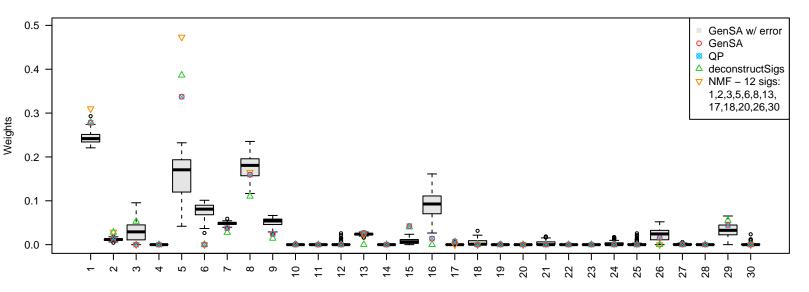
Signatures
GenSA+error(median) 0.02659, GenSA 0.02548, QP 0.02548, deconstructSigs 0.02800, NMF 0.02826

### PD4971(optimal GSA error \* 1.05)



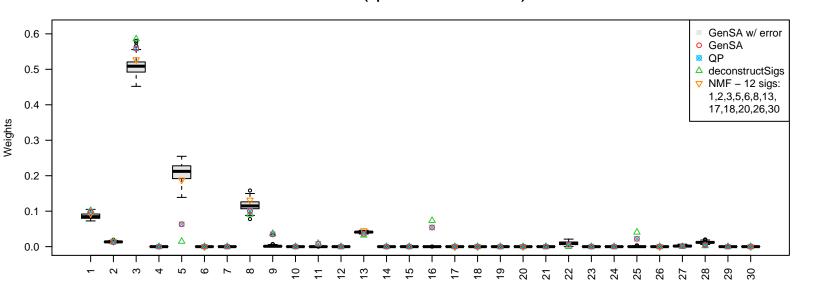
Signatures
GenSA+error(median) 0.02145, GenSA 0.02052, QP 0.02052, deconstructSigs 0.02082, NMF 0.02323

## PD4972(optimal GSA error \* 1.05)



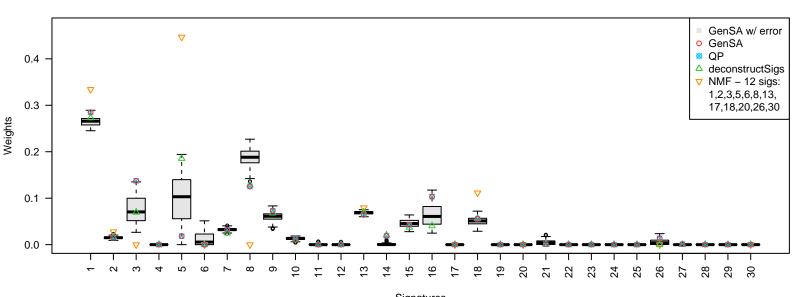
Signatures
GenSA+error(median) 0.03595, GenSA 0.03439, QP 0.03439, deconstructSigs 0.03605, NMF 0.03723

### PD4975(optimal GSA error \* 1.05)



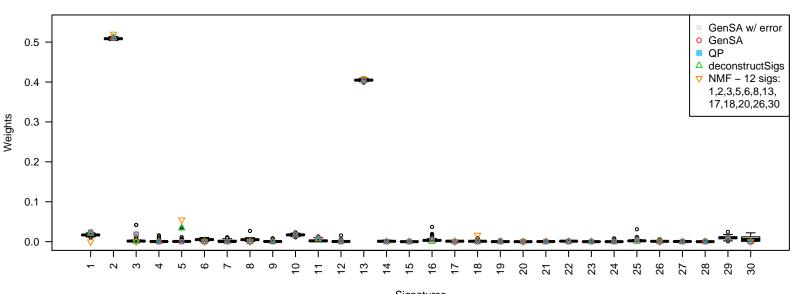
Signatures
GenSA+error(median) 0.01762, GenSA 0.01698, QP 0.01698, deconstructSigs 0.01708, NMF 0.01827

### PD4976(optimal GSA error \* 1.05)



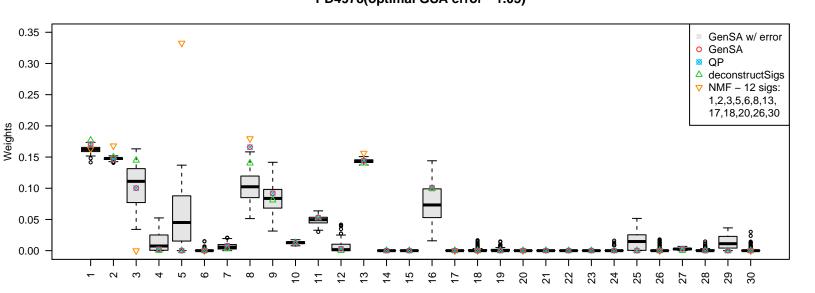
 $Signatures \\ GenSA+error(median)~0.02307,~GenSA~0.02219,~QP~0.02219,~deconstructSigs~0.02258,~NMF~0.03082$ 

## PD4977(optimal GSA error \* 1.05)



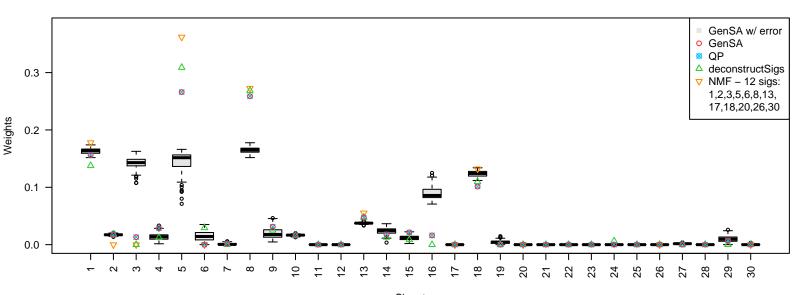
Signatures
GenSA+error(median) 0.01471, GenSA 0.01411, QP 0.01411, deconstructSigs 0.01445, NMF 0.01756

# PD4978(optimal GSA error \* 1.05)



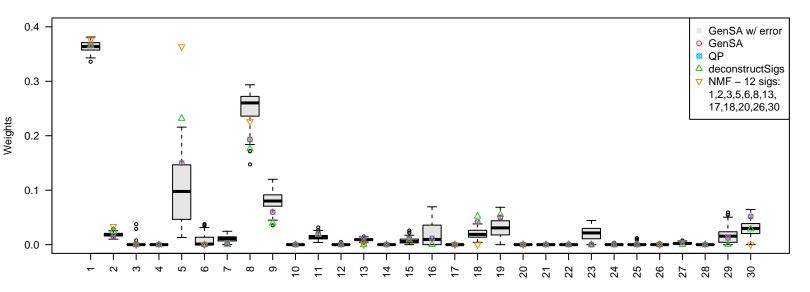
Signatures
GenSA+error(median) 0.02555, GenSA 0.02450, QP 0.02450, deconstructSigs 0.02469, NMF 0.03030

### PD4980(optimal GSA error \* 1.05)



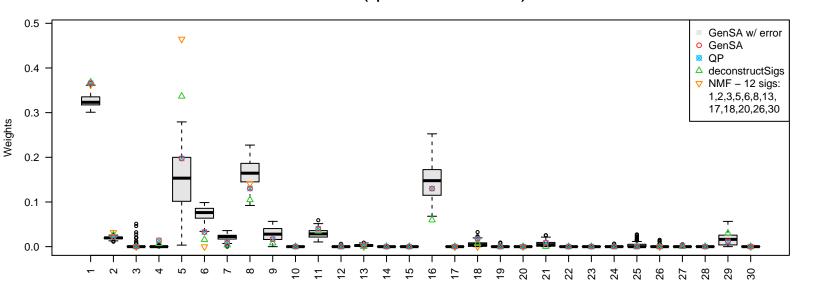
Signatures
GenSA+error(median) 0.02399, GenSA 0.02289, QP 0.02289, deconstructSigs 0.02309, NMF 0.02591

# PD4981(optimal GSA error \* 1.05)



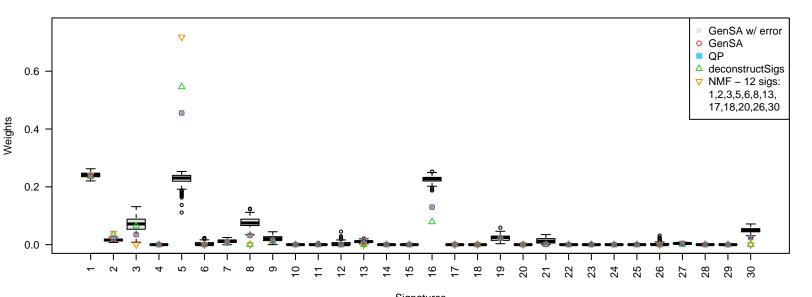
Signatures
GenSA+error(median) 0.02761, GenSA 0.02648, QP 0.02648, deconstructSigs 0.02709, NMF 0.03272

### PD4982(optimal GSA error \* 1.05)



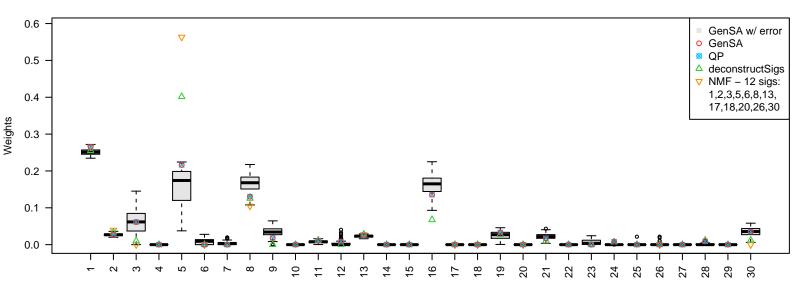
Signatures
GenSA+error(median) 0.02794, GenSA 0.02687, QP 0.02687, deconstructSigs 0.02725, NMF 0.02975

### PD4983(optimal GSA error \* 1.05)



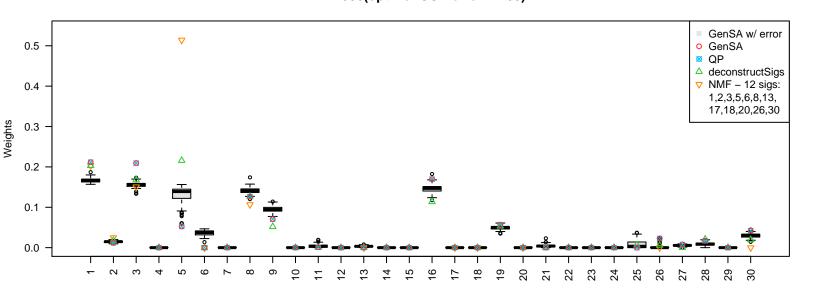
Signatures
GenSA+error(median) 0.02754, GenSA 0.02650, QP 0.02650, deconstructSigs 0.02719, NMF 0.02859

## PD4985(optimal GSA error \* 1.05)



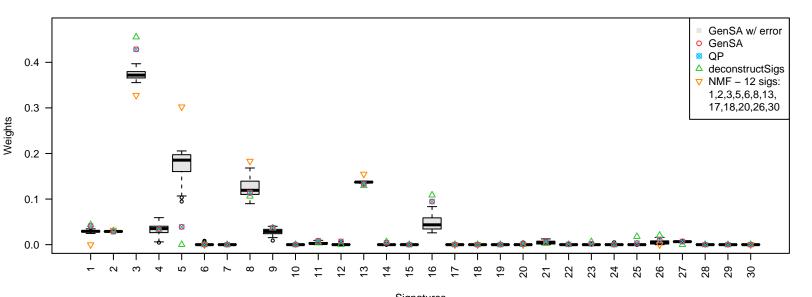
Signatures
GenSA+error(median) 0.02445, GenSA 0.02351, QP 0.02351, deconstructSigs 0.02381, NMF 0.02547

# PD4986(optimal GSA error \* 1.05)



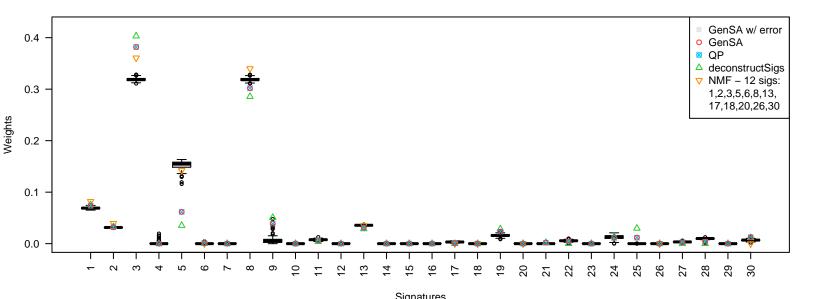
Signatures
GenSA+error(median) 0.02493, GenSA 0.02390, QP 0.02390, deconstructSigs 0.02431, NMF 0.02796

### PD5925(optimal GSA error \* 1.05)



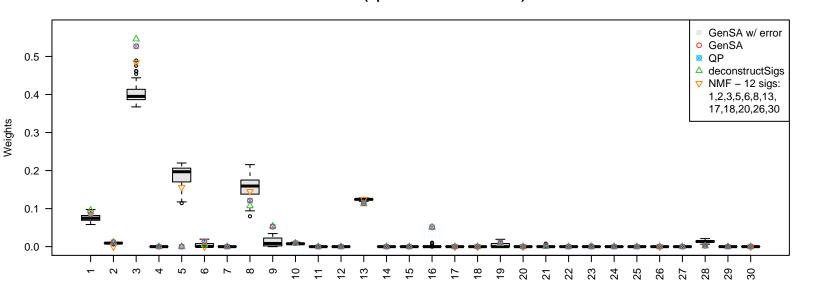
Signatures
GenSA+error(median) 0.01164, GenSA 0.01111, QP 0.01111, deconstructSigs 0.01148, NMF 0.01550

## PD5928(optimal GSA error \* 1.05)



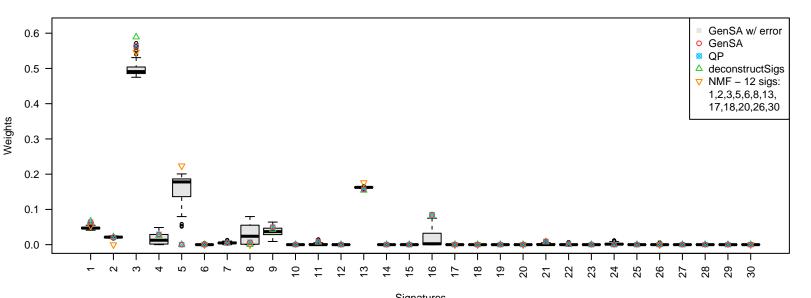
Signatures
GenSA+error(median) 0.01325, GenSA 0.01266, QP 0.01266, deconstructSigs 0.01279, NMF 0.01499

### PD5930(optimal GSA error \* 1.05)



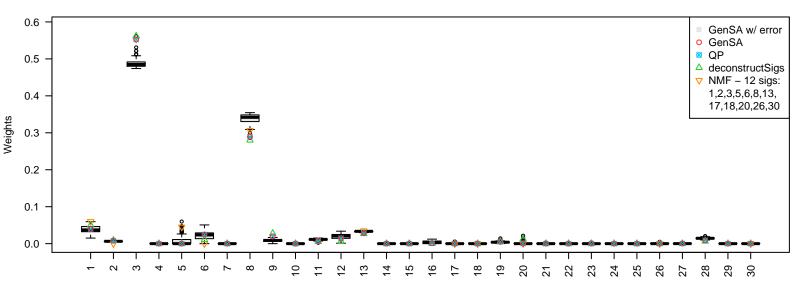
Signatures
GenSA+error(median) 0.02356, GenSA 0.02251, QP 0.02251, deconstructSigs 0.02257, NMF 0.02433

### PD5932(optimal GSA error \* 1.05)



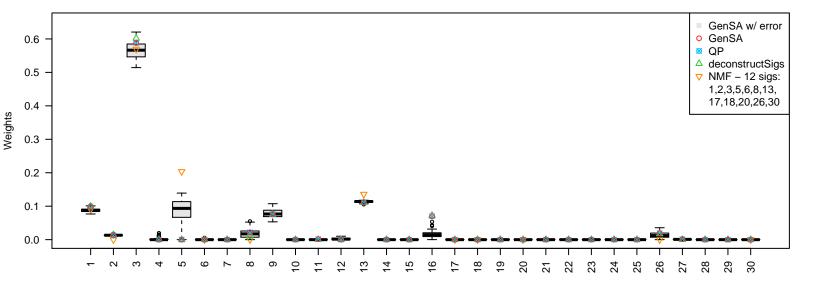
Signatures
GenSA+error(median) 0.01792, GenSA 0.01710, QP 0.01710, deconstructSigs 0.01719, NMF 0.02178

# PD5934(optimal GSA error \* 1.05)



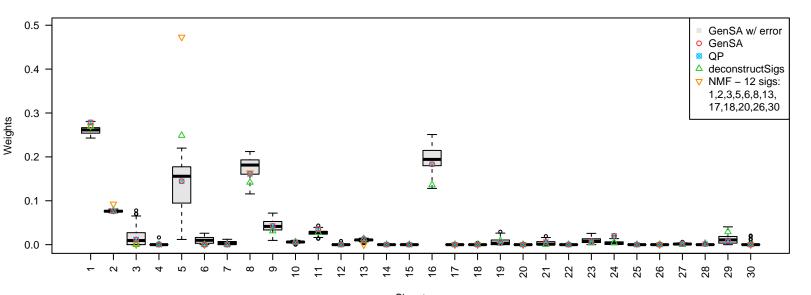
Signatures
GenSA+error(median) 0.01528, GenSA 0.01460, QP 0.01460, deconstructSigs 0.01472, NMF 0.01658

### PD5935(optimal GSA error \* 1.05)



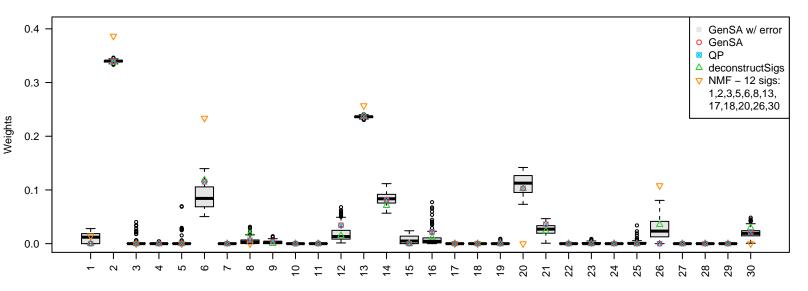
Signatures
GenSA+error(median) 0.01716, GenSA 0.01643, QP 0.01643, deconstructSigs 0.01648, NMF 0.02155

### PD5936(optimal GSA error \* 1.05)



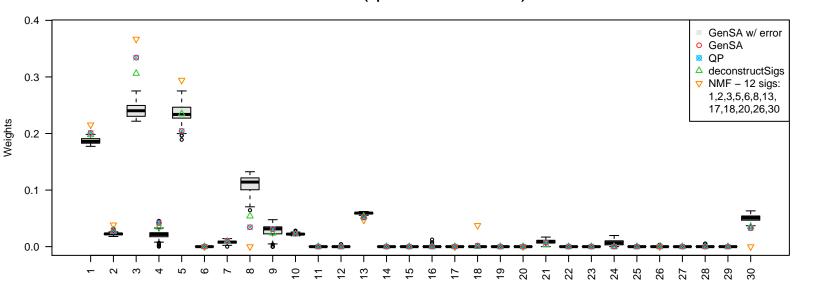
Signatures
GenSA+error(median) 0.02126, GenSA 0.02048, QP 0.02048, deconstructSigs 0.02072, NMF 0.02449

# PD5937(optimal GSA error \* 1.05)



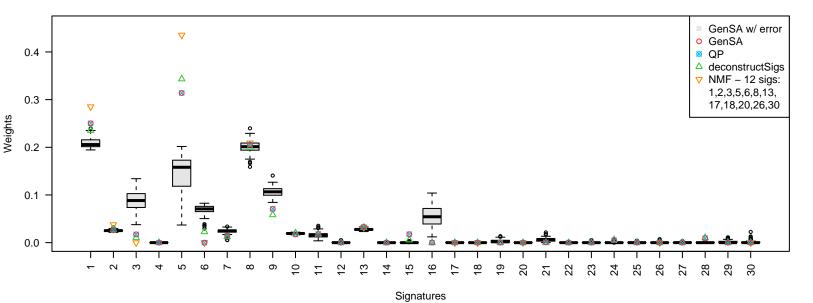
Signatures
GenSA+error(median) 0.01741, GenSA 0.01667, QP 0.01667, deconstructSigs 0.01695, NMF 0.03819

### PD5942(optimal GSA error \* 1.05)



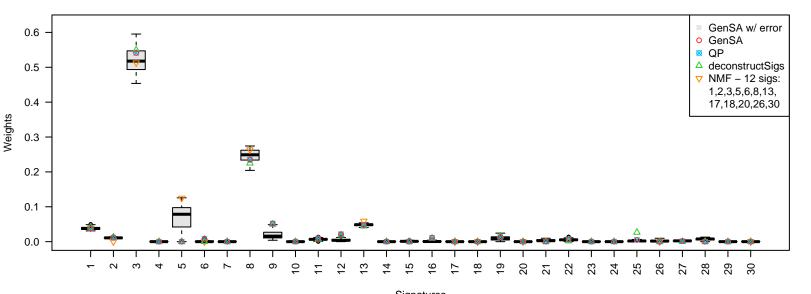
Signatures
GenSA+error(median) 0.02065, GenSA 0.01979, QP 0.01979, deconstructSigs 0.01987, NMF 0.02244

### PD5944(optimal GSA error \* 1.05)



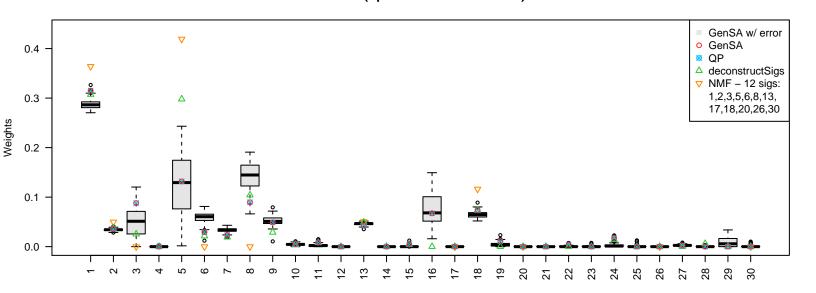
GenSA+error(median) 0.02766, GenSA 0.02648, QP 0.02648, deconstructSigs 0.02661, NMF 0.03052

# PD5945(optimal GSA error \* 1.05)



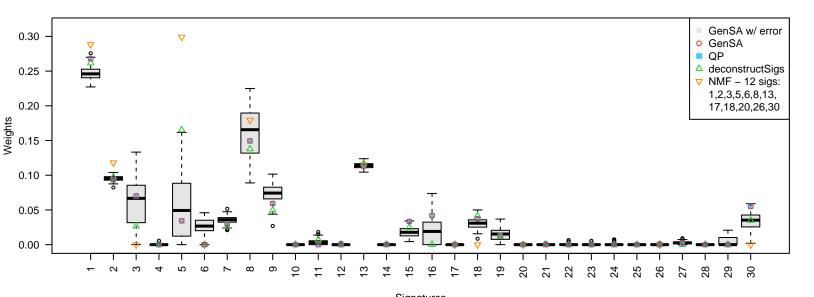
Signatures
GenSA+error(median) 0.01727, GenSA 0.01656, QP 0.01656, deconstructSigs 0.01666, NMF 0.01896

# PD5946(optimal GSA error \* 1.05)



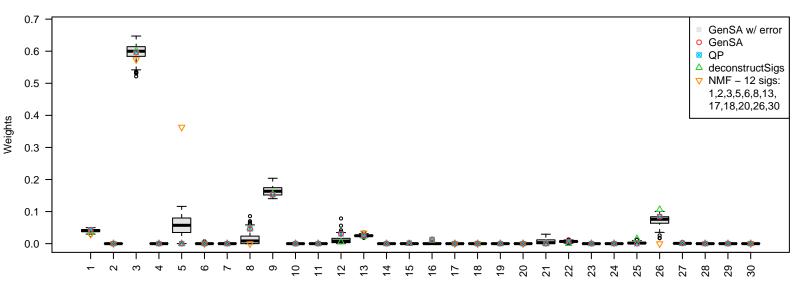
Signatures
GenSA+error(median) 0.02100, GenSA 0.02016, QP 0.02016, deconstructSigs 0.02062, NMF 0.02573

### PD5947(optimal GSA error \* 1.05)



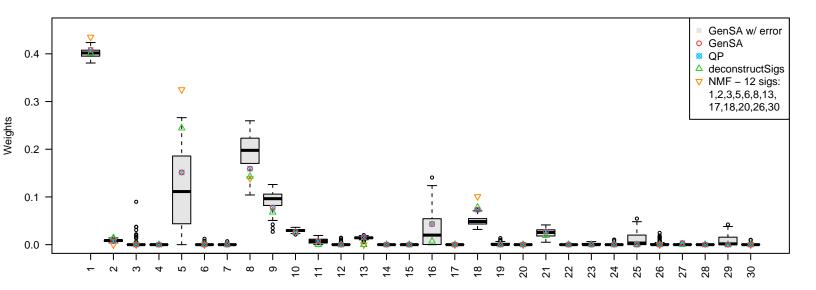
Signatures
GenSA+error(median) 0.02864, GenSA 0.02751, QP 0.02751, deconstructSigs 0.02780, NMF 0.03274

# PD5948(optimal GSA error \* 1.05)



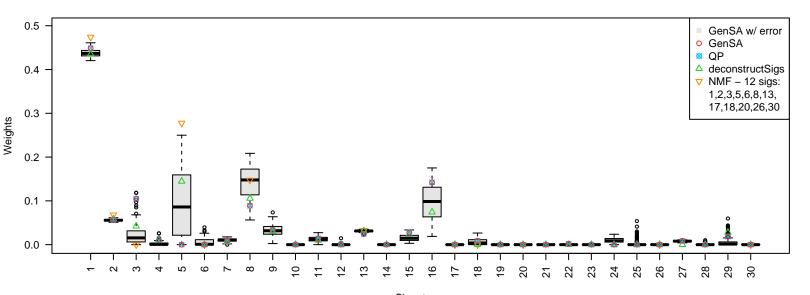
Signatures
GenSA+error(median) 0.02144, GenSA 0.02057, QP 0.02057, deconstructSigs 0.02068, NMF 0.02998

### PD5950(optimal GSA error \* 1.05)



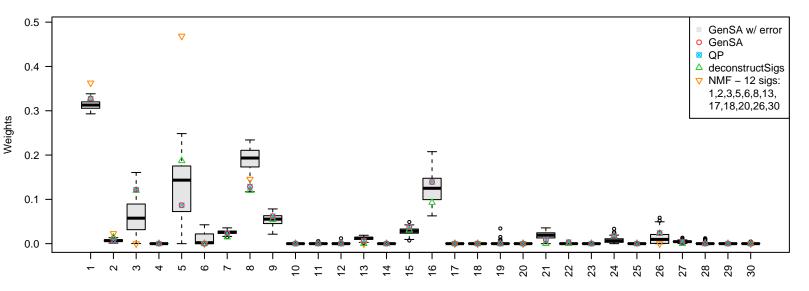
Signatures
GenSA+error(median) 0.02560, GenSA 0.02454, QP 0.02454, deconstructSigs 0.02553, NMF 0.03022

### PD5951(optimal GSA error \* 1.05)



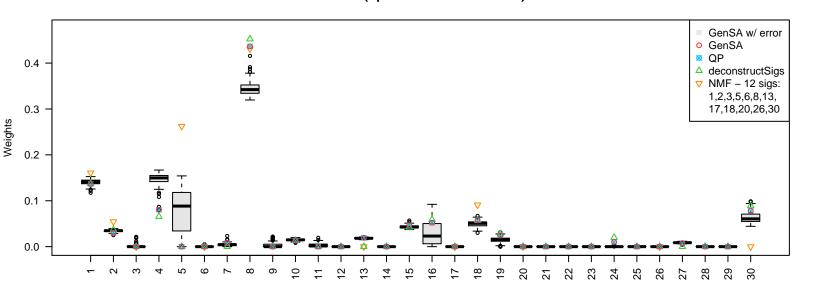
Signatures
GenSA+error(median) 0.02234, GenSA 0.02140, QP 0.02140, deconstructSigs 0.02207, NMF 0.02528

# PD5953(optimal GSA error \* 1.05)



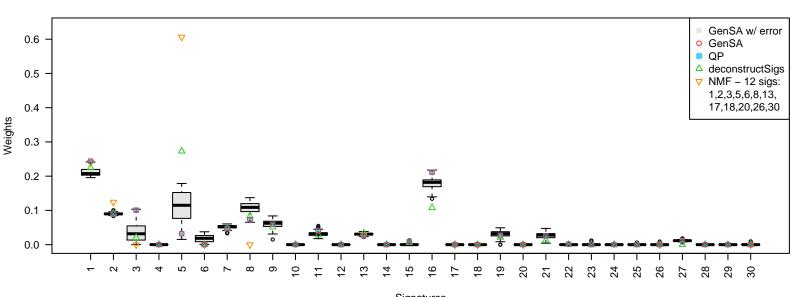
Signatures
GenSA+error(median) 0.02496, GenSA 0.02399, QP 0.02399, deconstructSigs 0.02447, NMF 0.02958

# PD5956(optimal GSA error \* 1.05)



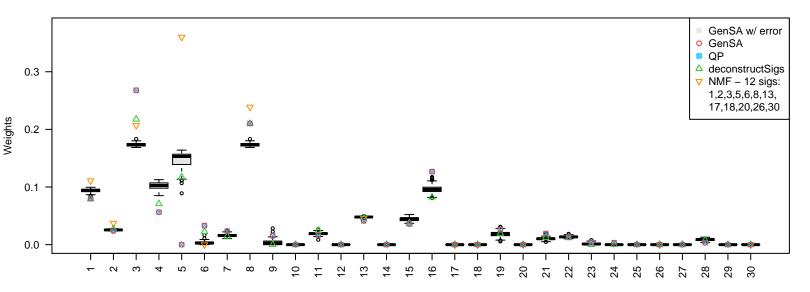
Signatures
GenSA+error(median) 0.02343, GenSA 0.02243, QP 0.02243, deconstructSigs 0.02407, NMF 0.03076

### PD5959(optimal GSA error \* 1.05)



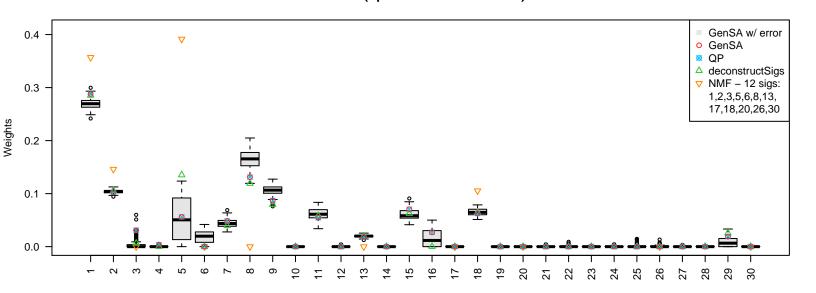
 $Signatures \\ GenSA+error(median)~0.02583,~GenSA~0.02480,~QP~0.02480,~deconstructSigs~0.02575,~NMF~0.03371$ 

## PD5960(optimal GSA error \* 1.05)



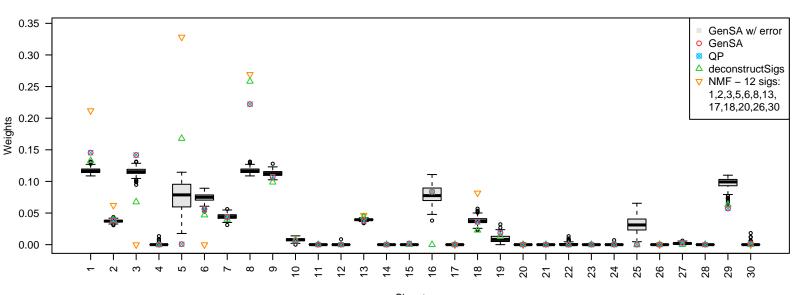
Signatures
GenSA+error(median) 0.01983, GenSA 0.01895, QP 0.01895, deconstructSigs 0.01923, NMF 0.02603

### PD5961(optimal GSA error \* 1.05)



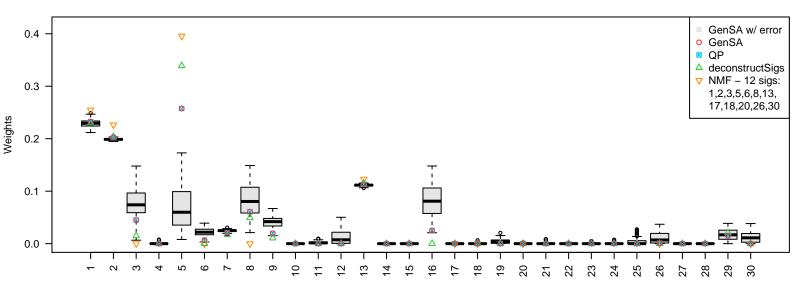
Signatures
GenSA+error(median) 0.02507, GenSA 0.02412, QP 0.02412, deconstructSigs 0.02429, NMF 0.03973

### PD5964(optimal GSA error \* 1.05)



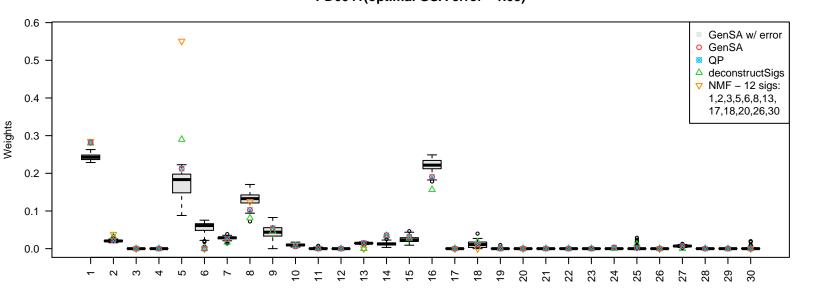
Signatures
GenSA+error(median) 0.03148, GenSA 0.03009, QP 0.03009, deconstructSigs 0.03043, NMF 0.03616

# PD6016(optimal GSA error \* 1.05)



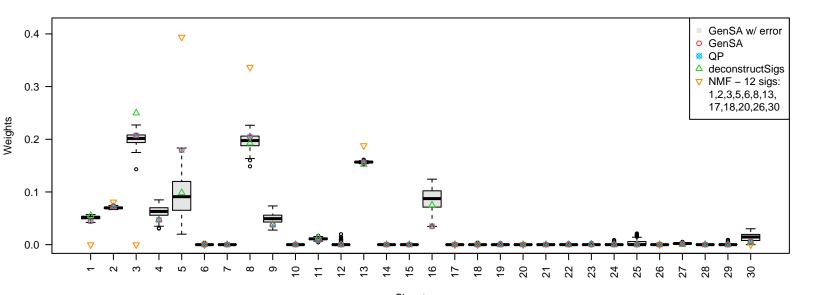
Signatures
GenSA+error(median) 0.01960, GenSA 0.01874, QP 0.01874, deconstructSigs 0.01889, NMF 0.02381

# PD6041(optimal GSA error \* 1.05)



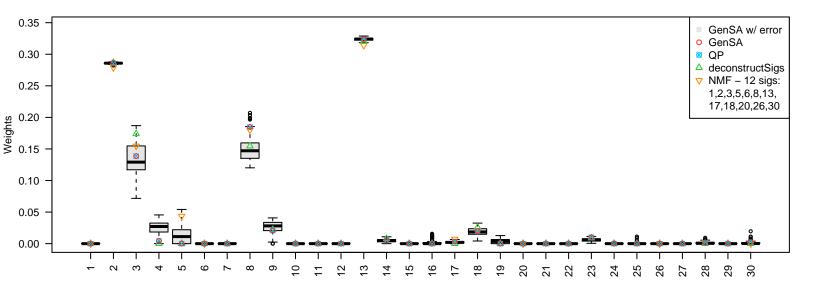
Signatures
GenSA+error(median) 0.03047, GenSA 0.02918, QP 0.02918, deconstructSigs 0.03011, NMF 0.03348

### PD6042(optimal GSA error \* 1.05)



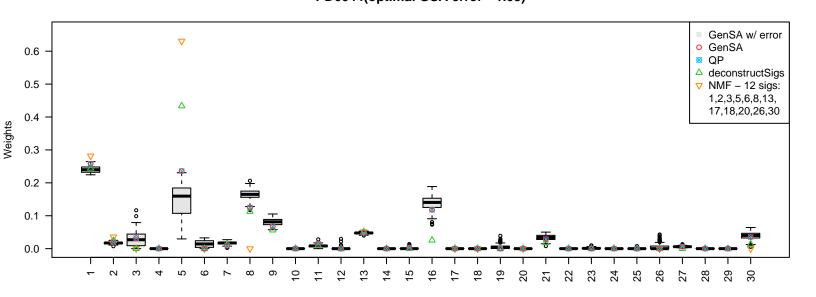
 $Signatures \\ GenSA+error(median)~0.01390,~GenSA~0.01331,~QP~0.01331,~deconstructSigs~0.01356,~NMF~0.02073$ 

# PD6043(optimal GSA error \* 1.05)



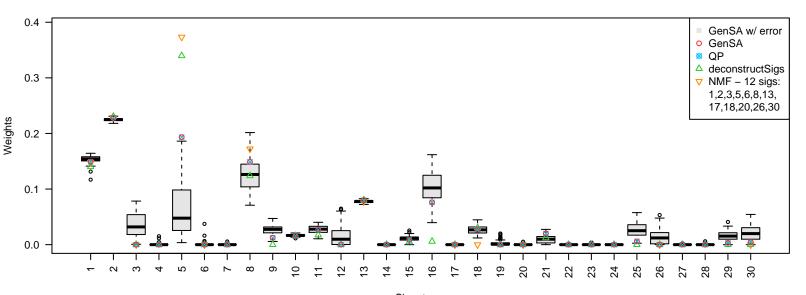
Signatures
GenSA+error(median) 0.01225, GenSA 0.01174, QP 0.01174, deconstructSigs 0.01195, NMF 0.01390

# PD6044(optimal GSA error \* 1.05)



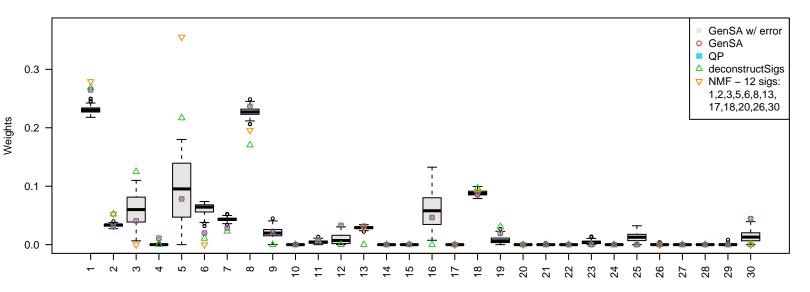
Signatures
GenSA+error(median) 0.02516, GenSA 0.02419, QP 0.02419, deconstructSigs 0.02468, NMF 0.02899

### PD6045(optimal GSA error \* 1.05)



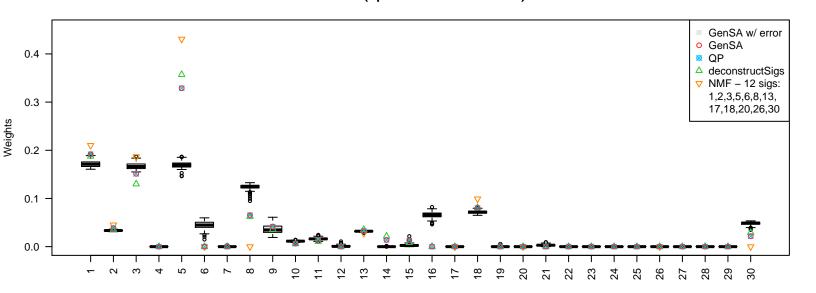
 $Signatures \\ GenSA+error(median)~0.02018,~GenSA~0.01929,~QP~0.01929,~deconstructSigs~0.01972,~NMF~0.02256$ 

## PD6046(optimal GSA error \* 1.05)



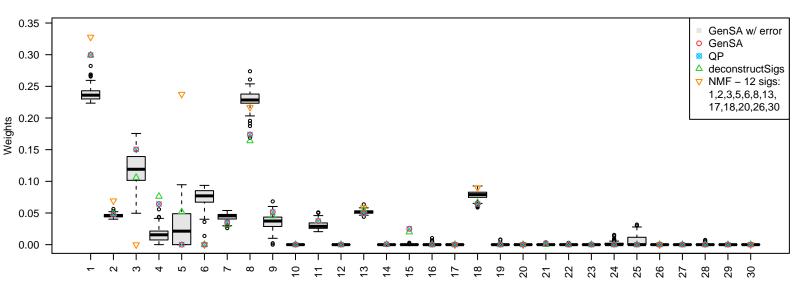
Signatures
GenSA+error(median) 0.02399, GenSA 0.02300, QP 0.02300, deconstructSigs 0.02602, NMF 0.02692

### PD6047(optimal GSA error \* 1.05)



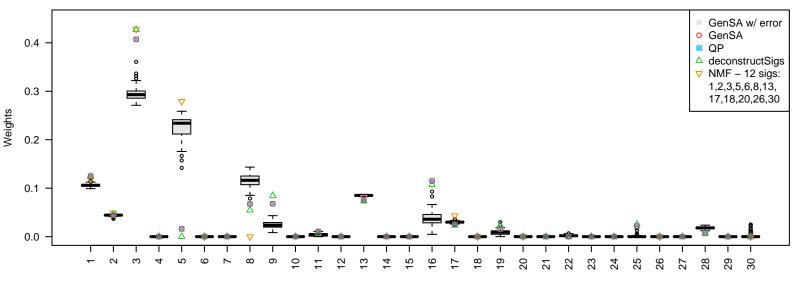
Signatures
GenSA+error(median) 0.02164, GenSA 0.02066, QP 0.02066, deconstructSigs 0.02076, NMF 0.02274

### PD6048(optimal GSA error \* 1.05)



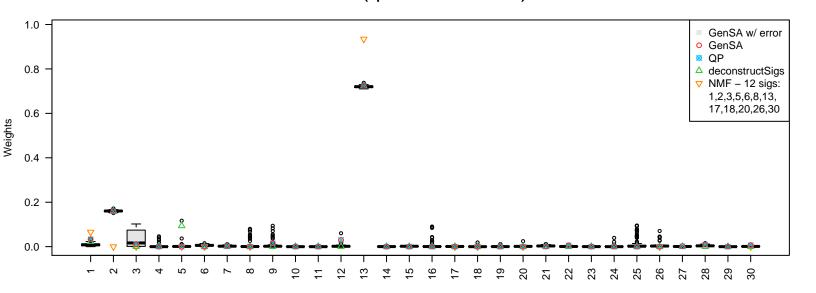
 $Signatures \\ GenSA+error(median)~0.02850,~GenSA~0.02736,~QP~0.02736,~deconstructSigs~0.02755,~NMF~0.03565$ 

## PD6404(optimal GSA error \* 1.05)



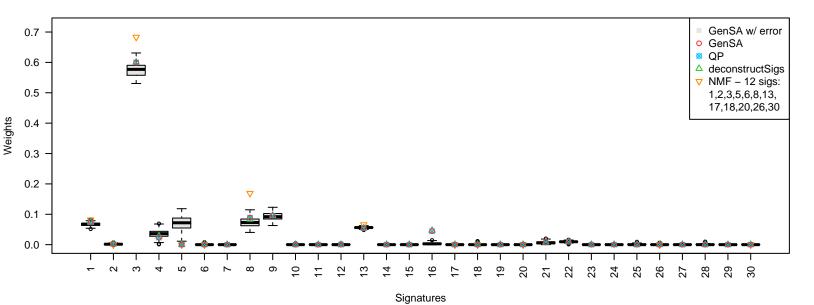
Signatures
GenSA+error(median) 0.02045, GenSA 0.01953, QP 0.01953, deconstructSigs 0.01962, NMF 0.02258

# PD6405(optimal GSA error \* 1.05)



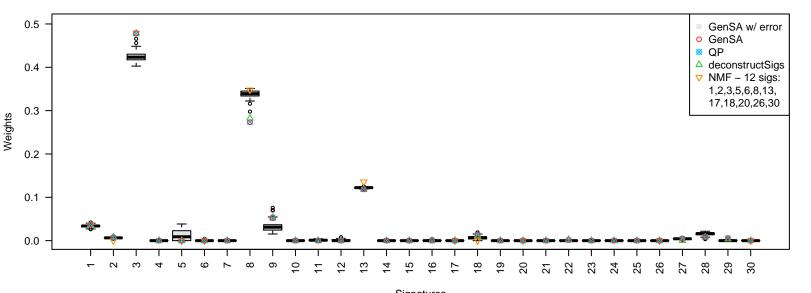
Signatures
GenSA+error(median) 0.02857, GenSA 0.02740, QP 0.02740, deconstructSigs 0.02794, NMF 0.10182

### PD6406(optimal GSA error \* 1.05)



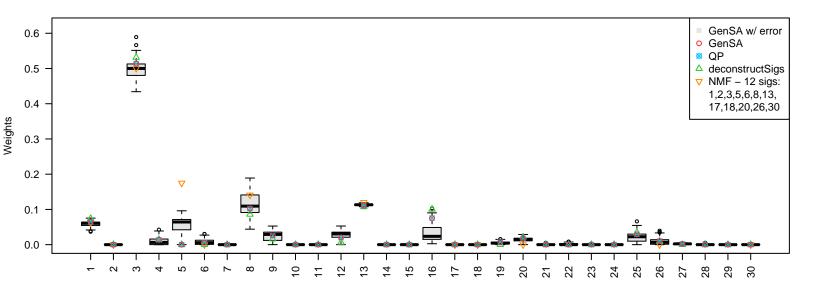
GenSA+error(median) 0.01922, GenSA 0.01848, QP 0.01848, deconstructSigs 0.01849, NMF 0.02421

## PD6409(optimal GSA error \* 1.05)



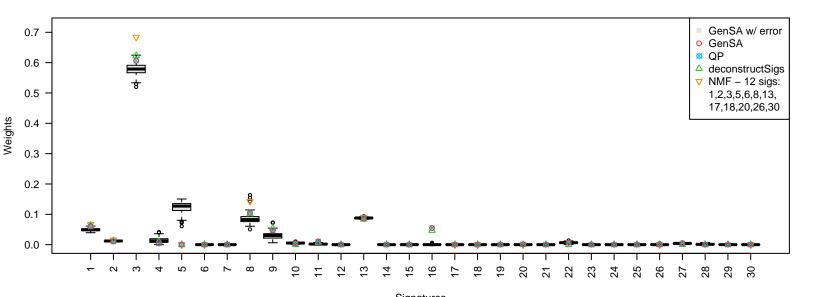
Signatures
GenSA+error(median) 0.01490, GenSA 0.01424, QP 0.01424, deconstructSigs 0.01434, NMF 0.01817

### PD6410(optimal GSA error \* 1.05)



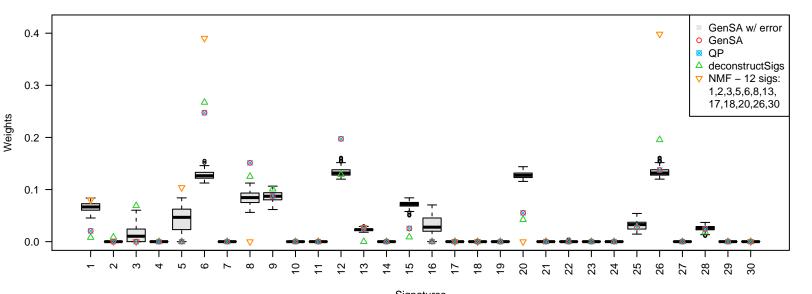
Signatures
GenSA+error(median) 0.02046, GenSA 0.01957, QP 0.01957, deconstructSigs 0.01973, NMF 0.02242

### PD6411(optimal GSA error \* 1.05)



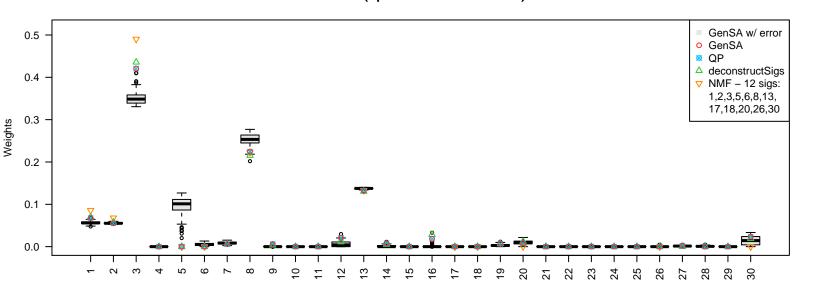
Signatures
GenSA+error(median) 0.02093, GenSA 0.02001, QP 0.02001, deconstructSigs 0.02027, NMF 0.02285

## PD6412(optimal GSA error \* 1.05)



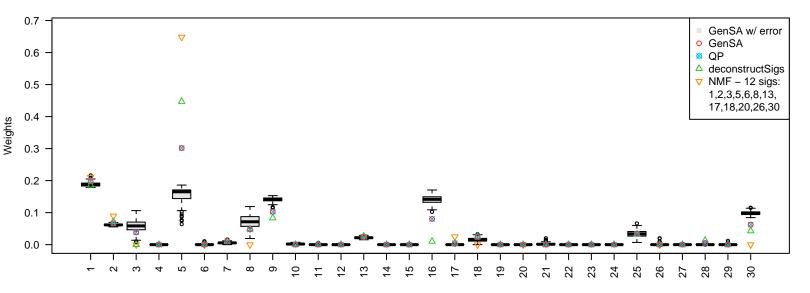
Signatures
GenSA+error(median) 0.03548, GenSA 0.03398, QP 0.03398, deconstructSigs 0.03542, NMF 0.06244

### PD6413(optimal GSA error \* 1.05)



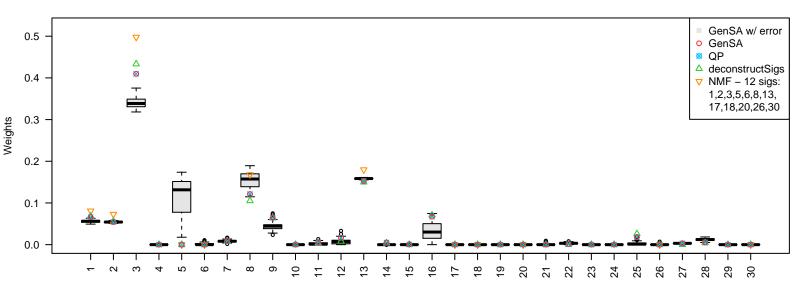
Signatures
GenSA+error(median) 0.01323, GenSA 0.01265, QP 0.01265, deconstructSigs 0.01275, NMF 0.01567

### PD6414(optimal GSA error \* 1.05)



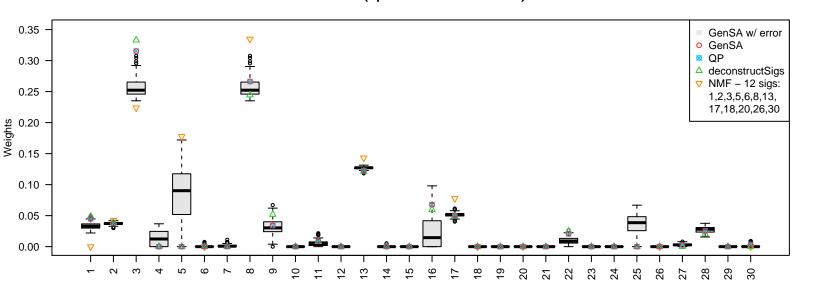
Signatures
GenSA+error(median) 0.02488, GenSA 0.02395, QP 0.02395, deconstructSigs 0.02422, NMF 0.02885

## PD6415(optimal GSA error \* 1.05)



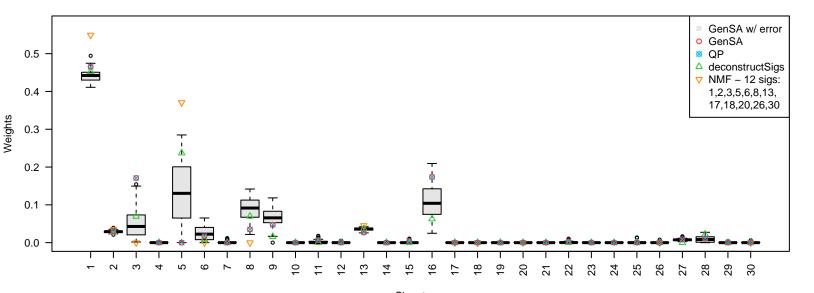
Signatures
GenSA+error(median) 0.01567, GenSA 0.01497, QP 0.01497, deconstructSigs 0.01509, NMF 0.02766

### PD6416(optimal GSA error \* 1.05)



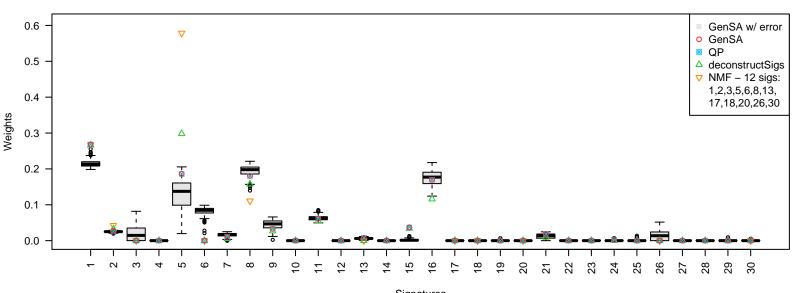
Signatures
GenSA+error(median) 0.02217, GenSA 0.02126, QP 0.02126, deconstructSigs 0.02136, NMF 0.02567

### PD6417(optimal GSA error \* 1.05)



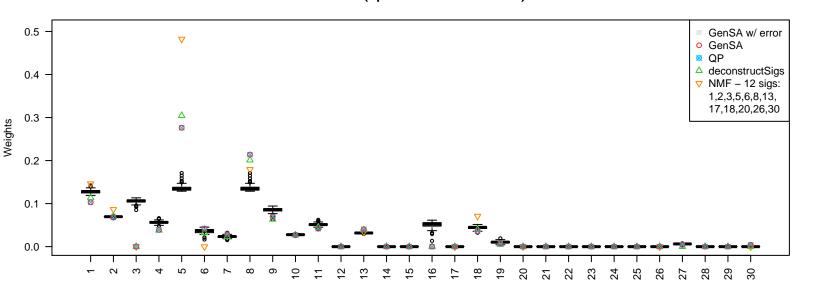
 $Signatures \\ GenSA+error(median)~0.02832,~GenSA~0.02710,~QP~0.02710,~deconstructSigs~0.02807,~NMF~0.03946$ 

# PD6418(optimal GSA error \* 1.05)



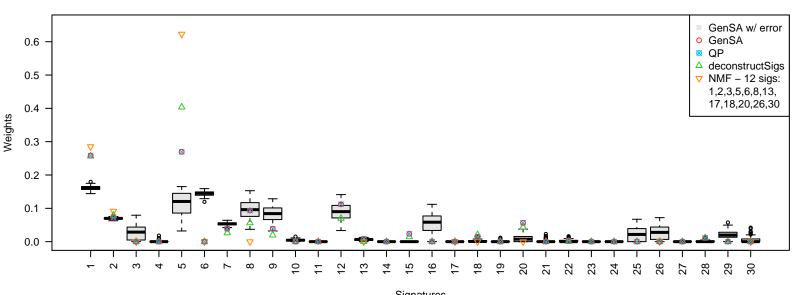
Signatures
GenSA+error(median) 0.02732, GenSA 0.02616, QP 0.02616, deconstructSigs 0.02660, NMF 0.03184

### PD6422(optimal GSA error \* 1.05)



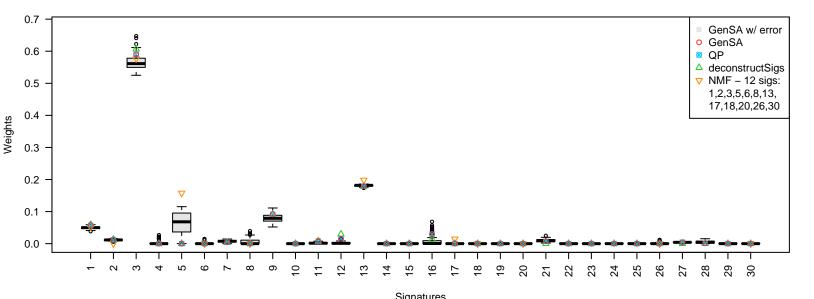
Signatures
GenSA+error(median) 0.02522, GenSA 0.02404, QP 0.02404, deconstructSigs 0.02418, NMF 0.03252

### PD6466(optimal GSA error \* 1.05)



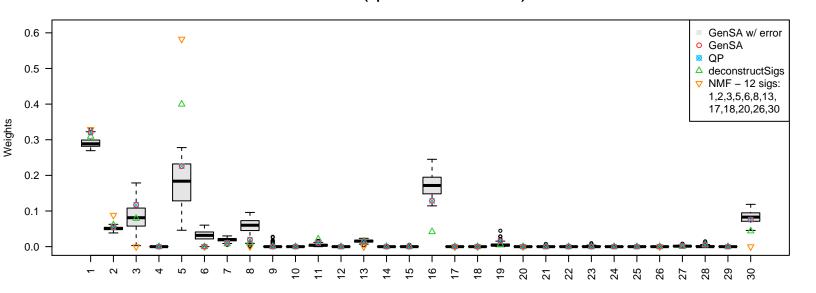
Signatures
GenSA+error(median) 0.05383, GenSA 0.05145, QP 0.05145, deconstructSigs 0.05180, NMF 0.05437

## PD6684(optimal GSA error \* 1.05)



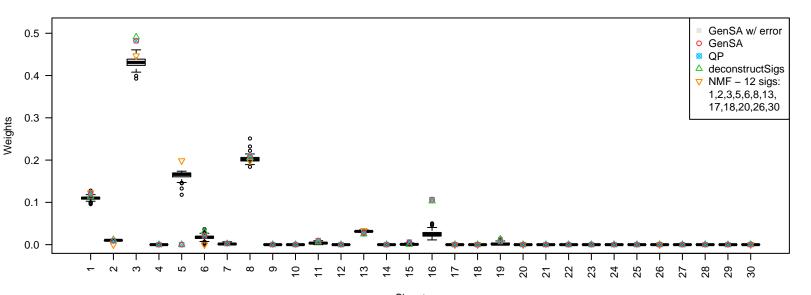
Signatures
GenSA+error(median) 0.01770, GenSA 0.01695, QP 0.01695, deconstructSigs 0.01712, NMF 0.02156

### PD6711(optimal GSA error \* 1.05)



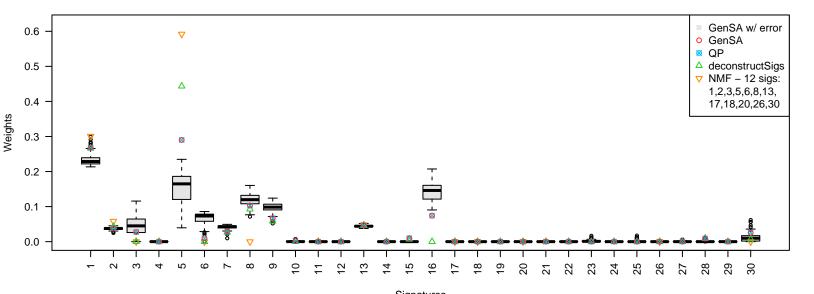
Signatures
GenSA+error(median) 0.02502, GenSA 0.02404, QP 0.02404, deconstructSigs 0.02446, NMF 0.02961

### PD6719(optimal GSA error \* 1.05)



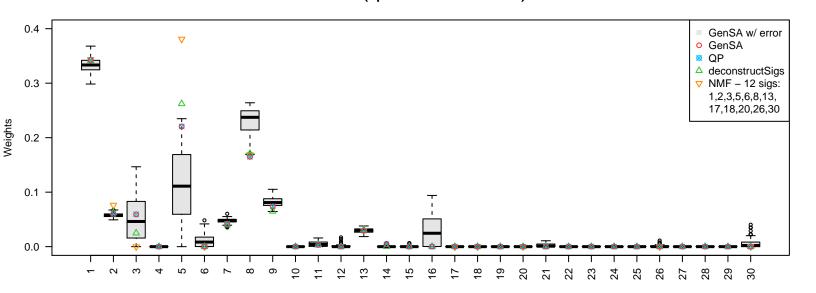
Signatures
GenSA+error(median) 0.01838, GenSA 0.01754, QP 0.01754, deconstructSigs 0.01760, NMF 0.01959

## PD6720(optimal GSA error \* 1.05)



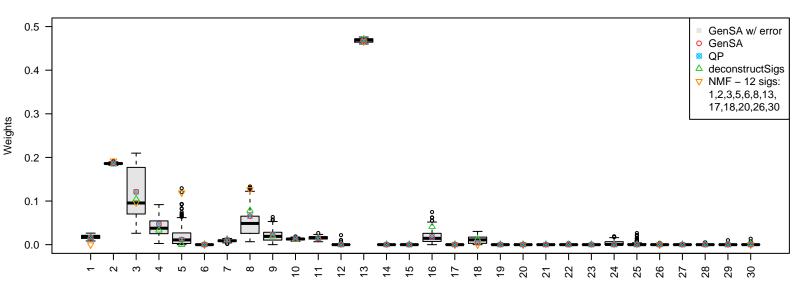
Signatures
GenSA+error(median) 0.02664, GenSA 0.02553, QP 0.02553, deconstructSigs 0.02580, NMF 0.03025

### PD6721(optimal GSA error \* 1.05)



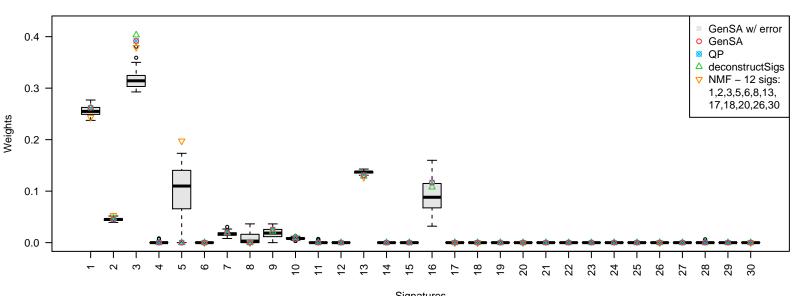
Signatures
GenSA+error(median) 0.02571, GenSA 0.02460, QP 0.02460, deconstructSigs 0.02472, NMF 0.02831

### PD6722(optimal GSA error \* 1.05)



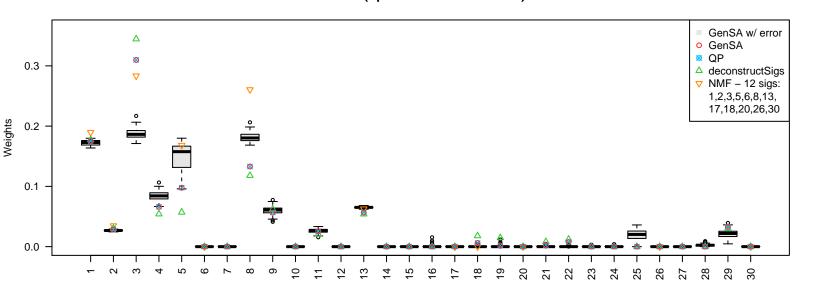
Signatures
GenSA+error(median) 0.01581, GenSA 0.01513, QP 0.01513, deconstructSigs 0.01531, NMF 0.01848

## PD6727(optimal GSA error \* 1.05)



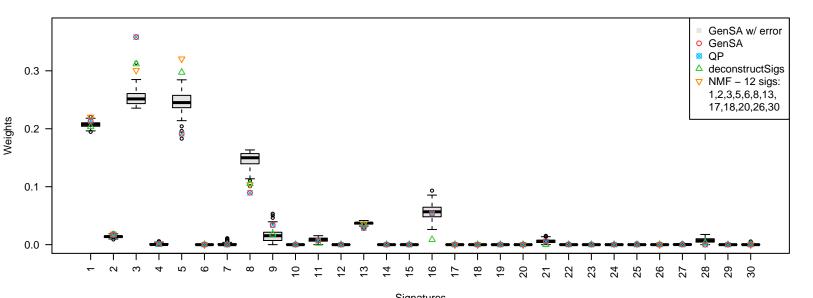
Signatures
GenSA+error(median) 0.02225, GenSA 0.02129, QP 0.02129, deconstructSigs 0.02135, NMF 0.02363

### PD6728(optimal GSA error \* 1.05)



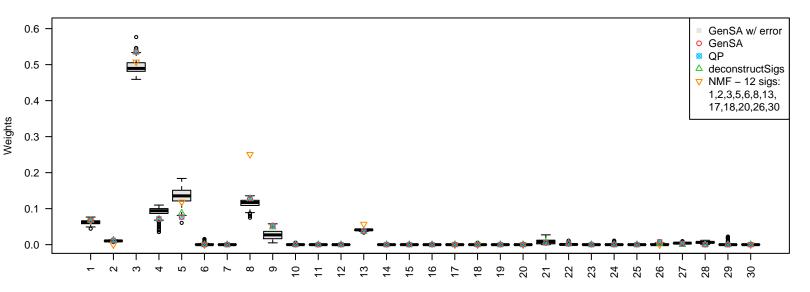
Signatures
GenSA+error(median) 0.02138, GenSA 0.02045, QP 0.02045, deconstructSigs 0.02061, NMF 0.02440

### PD6729(optimal GSA error \* 1.05)



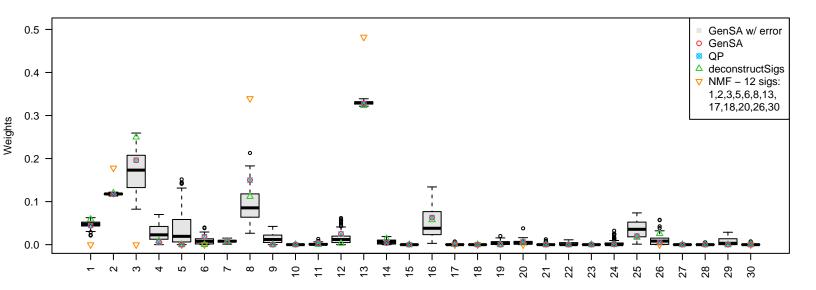
Signatures
GenSA+error(median) 0.02112, GenSA 0.02025, QP 0.02025, deconstructSigs 0.02045, NMF 0.02119

## PD6730(optimal GSA error \* 1.05)



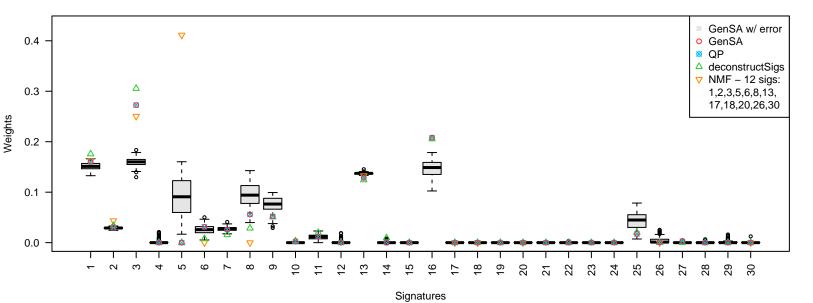
Signatures
GenSA+error(median) 0.01660, GenSA 0.01593, QP 0.01593, deconstructSigs 0.01598, NMF 0.01958

### PD6731(optimal GSA error \* 1.05)



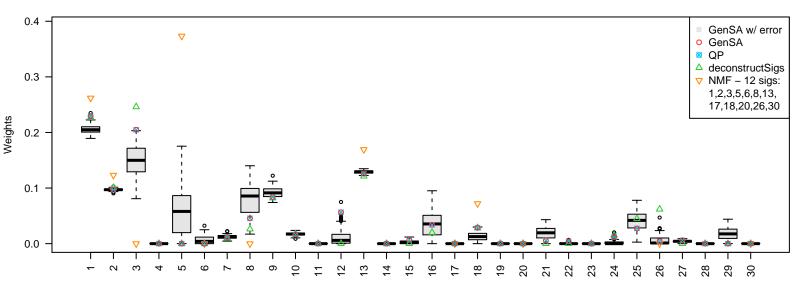
Signatures
GenSA+error(median) 0.02182, GenSA 0.02086, QP 0.02086, deconstructSigs 0.02115, NMF 0.08407

### PD6732(optimal GSA error \* 1.05)



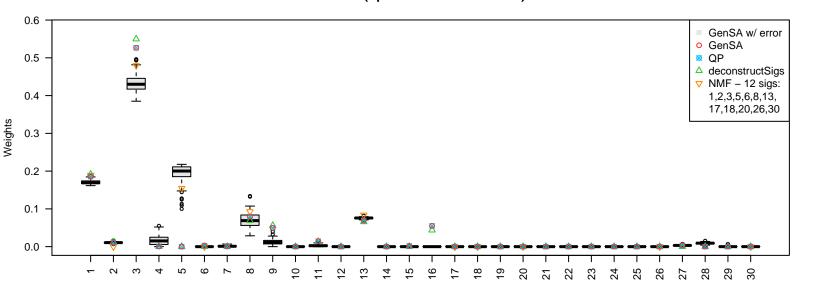
GenSA+error(median) 0.02500, GenSA 0.02392, QP 0.02392, deconstructSigs 0.02413, NMF 0.02744

# PD6733(optimal GSA error \* 1.05)



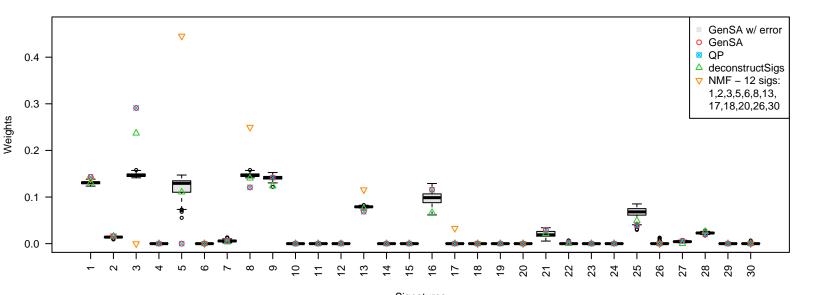
Signatures
GenSA+error(median) 0.02239, GenSA 0.02149, QP 0.02149, deconstructSigs 0.02199, NMF 0.03682

### PD7066(optimal GSA error \* 1.05)



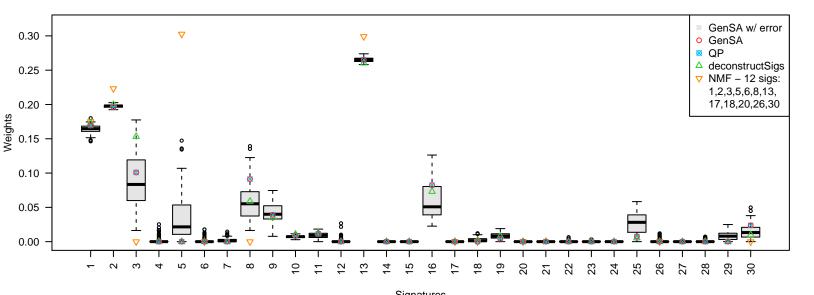
Signatures
GenSA+error(median) 0.02139, GenSA 0.02044, QP 0.02044, deconstructSigs 0.02056, NMF 0.02233

#### PD7067(optimal GSA error \* 1.05)



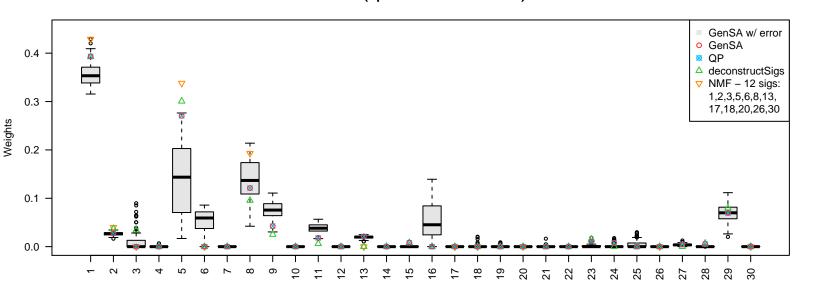
Signatures
GenSA+error(median) 0.02496, GenSA 0.02383, QP 0.02383, deconstructSigs 0.02421, NMF 0.03518

# PD7069(optimal GSA error \* 1.05)



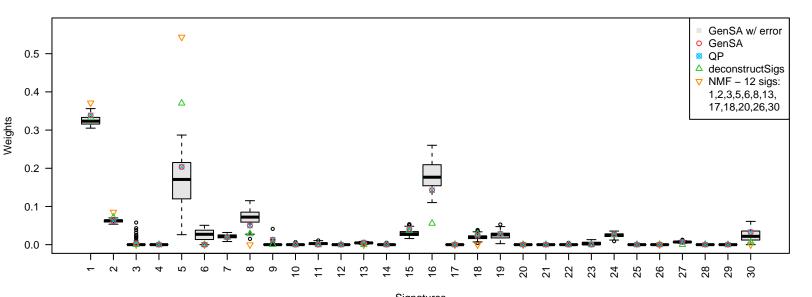
Signatures
GenSA+error(median) 0.01656, GenSA 0.01585, QP 0.01585, deconstructSigs 0.01612, NMF 0.02813

#### PD7199(optimal GSA error \* 1.05)



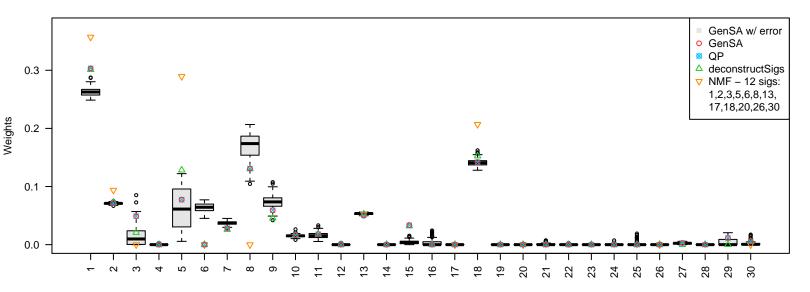
Signatures
GenSA+error(median) 0.03356, GenSA 0.03223, QP 0.03223, deconstructSigs 0.03343, NMF 0.03596

#### PD7201(optimal GSA error \* 1.05)



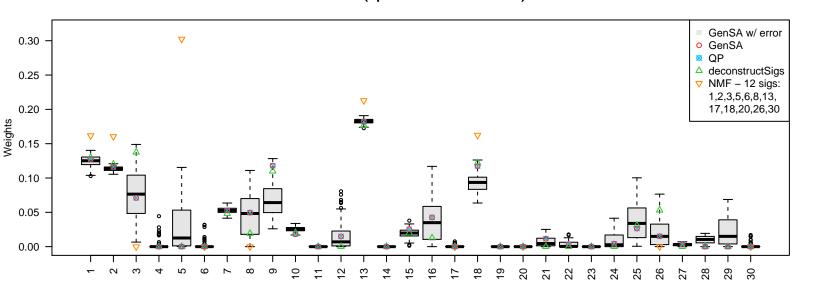
Signatures
GenSA+error(median) 0.02342, GenSA 0.02250, QP 0.02250, deconstructSigs 0.02321, NMF 0.02853

# PD7202(optimal GSA error \* 1.05)



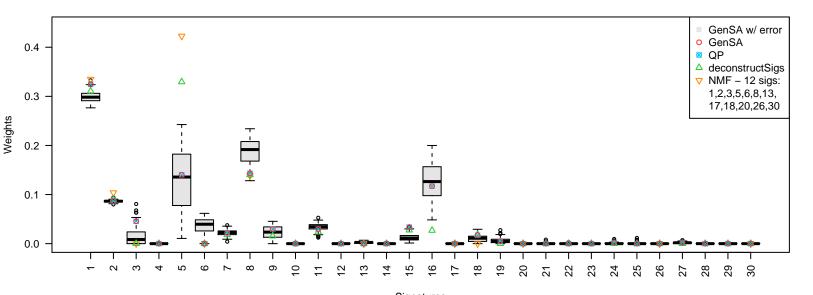
Signatures
GenSA+error(median) 0.02374, GenSA 0.02276, QP 0.02276, deconstructSigs 0.02294, NMF 0.03046

#### PD7203(optimal GSA error \* 1.05)



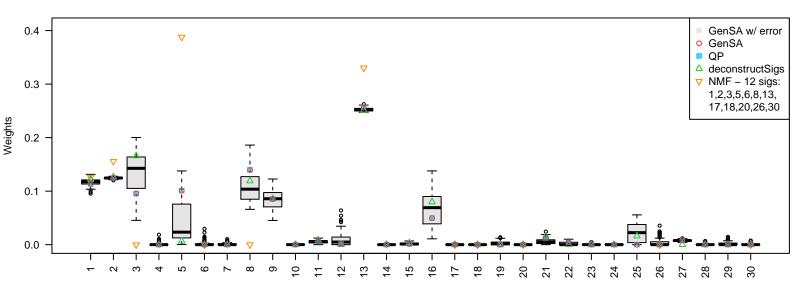
Signatures
GenSA+error(median) 0.02815, GenSA 0.02704, QP 0.02704, deconstructSigs 0.02739, NMF 0.04106

#### PD7204(optimal GSA error \* 1.05)



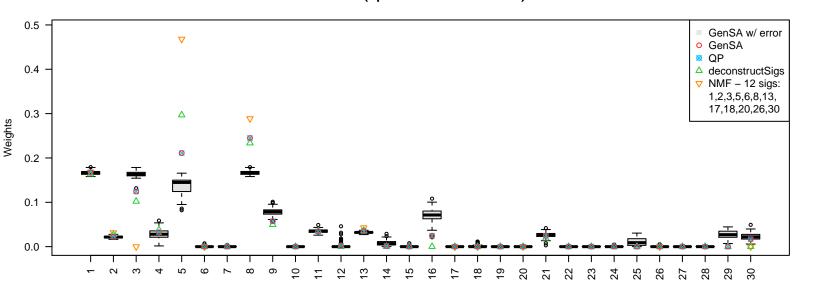
Signatures
GenSA+error(median) 0.02538, GenSA 0.02433, QP 0.02433, deconstructSigs 0.02485, NMF 0.02817

# PD7205(optimal GSA error \* 1.05)



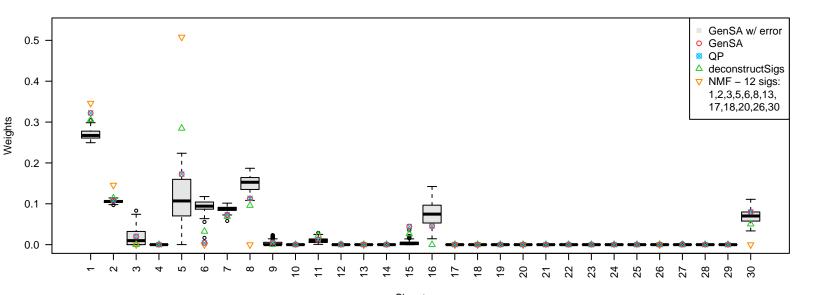
Signatures
GenSA+error(median) 0.01807, GenSA 0.01729, QP 0.01729, deconstructSigs 0.01793, NMF 0.04678

# PD7206(optimal GSA error \* 1.05)



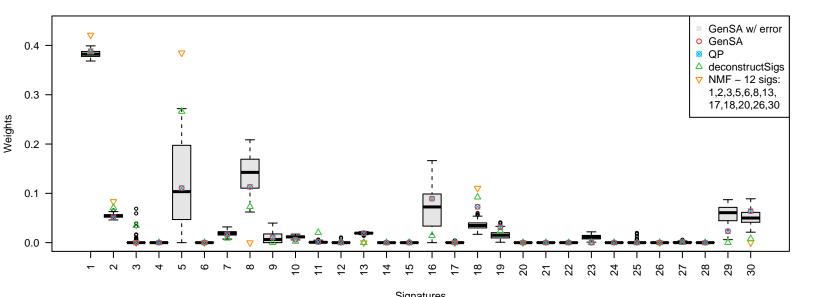
Signatures
GenSA+error(median) 0.02417, GenSA 0.02319, QP 0.02319, deconstructSigs 0.02329, NMF 0.02635

#### PD7207(optimal GSA error \* 1.05)



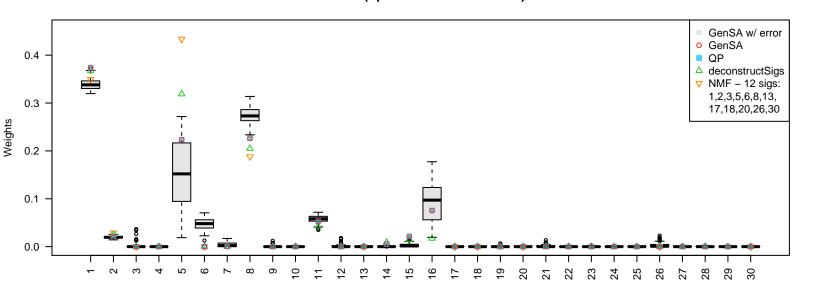
Signatures
GenSA+error(median) 0.03011, GenSA 0.02881, QP 0.02881, deconstructSigs 0.02911, NMF 0.04276

# PD7209(optimal GSA error \* 1.05)



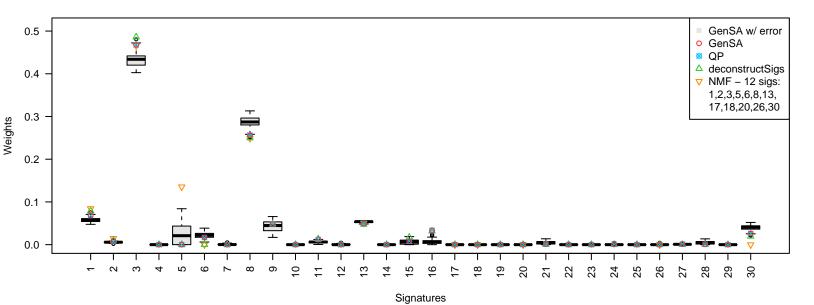
Signatures
GenSA+error(median) 0.02404, GenSA 0.02303, QP 0.02303, deconstructSigs 0.02477, NMF 0.02854

# PD7210(optimal GSA error \* 1.05)



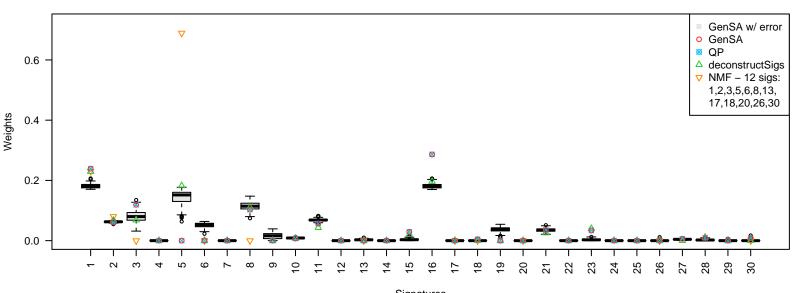
Signatures
GenSA+error(median) 0.02747, GenSA 0.02630, QP 0.02630, deconstructSigs 0.02652, NMF 0.03069

#### PD7211(optimal GSA error \* 1.05)



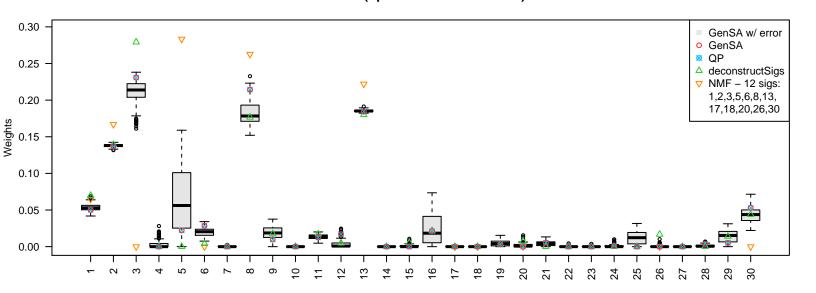
GenSA+error(median) 0.01356, GenSA 0.01300, QP 0.01300, deconstructSigs 0.01314, NMF 0.01545

#### PD7214(optimal GSA error \* 1.05)



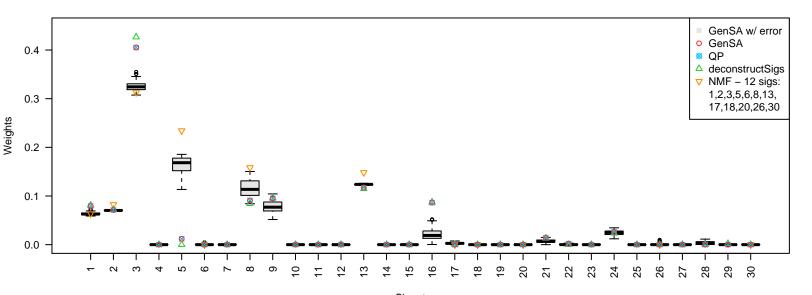
Signatures
GenSA+error(median) 0.02931, GenSA 0.02804, QP 0.02804, deconstructSigs 0.02855, NMF 0.03680

#### PD7215(optimal GSA error \* 1.05)



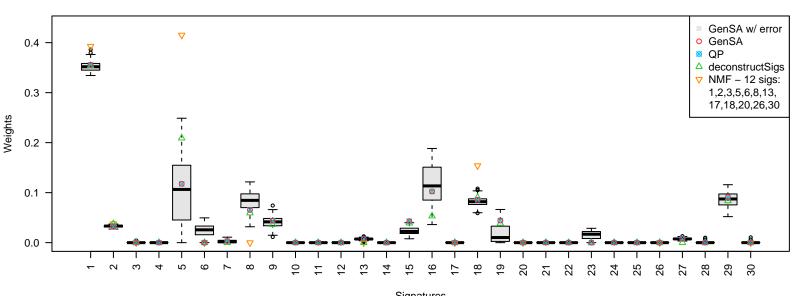
Signatures
GenSA+error(median) 0.01499, GenSA 0.01441, QP 0.01441, deconstructSigs 0.01487, NMF 0.02711

#### PD7217(optimal GSA error \* 1.05)



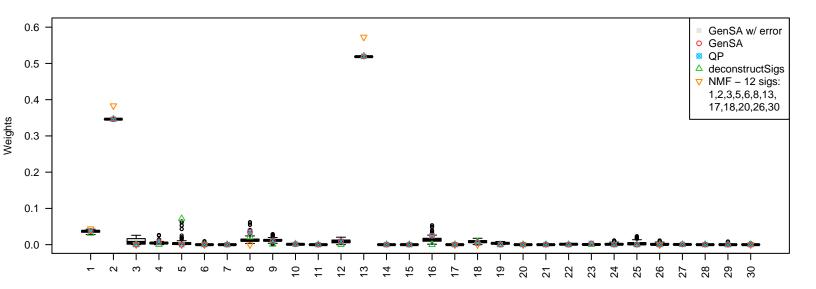
Signatures
GenSA+error(median) 0.01610, GenSA 0.01537, QP 0.01537, deconstructSigs 0.01543, NMF 0.02363

#### PD7218(optimal GSA error \* 1.05)



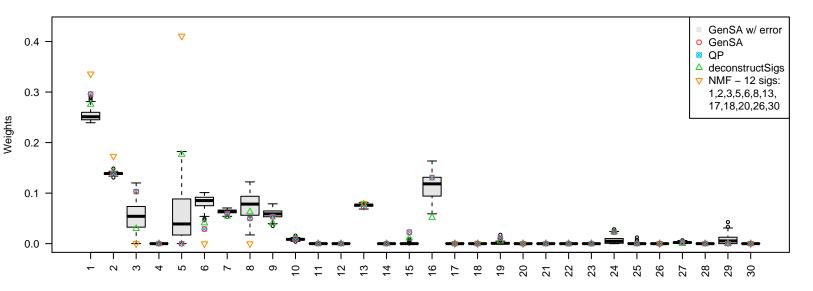
Signatures
GenSA+error(median) 0.02282, GenSA 0.02191, QP 0.02191, deconstructSigs 0.02251, NMF 0.02787

#### PD7219(optimal GSA error \* 1.05)



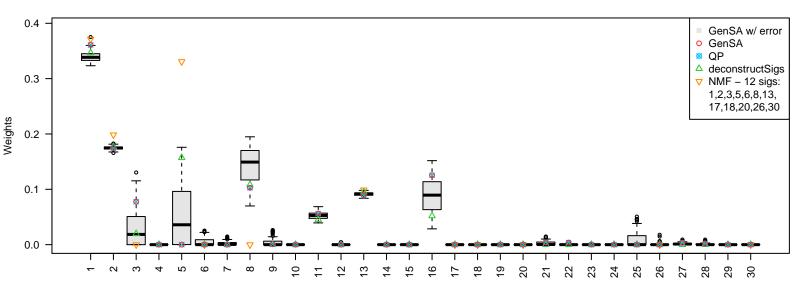
Signatures
GenSA+error(median) 0.00859, GenSA 0.00821, QP 0.00821, deconstructSigs 0.00853, NMF 0.03647

#### PD7220(optimal GSA error \* 1.05)



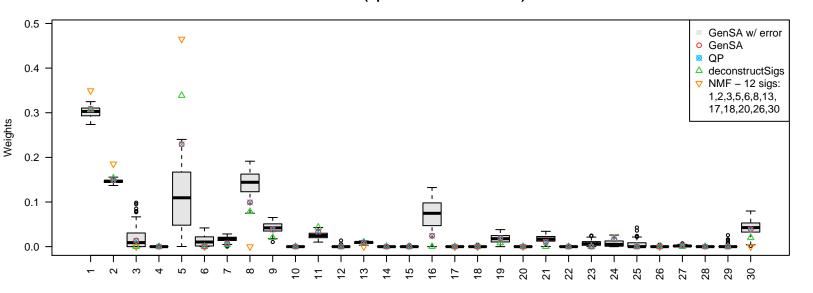
Signatures
GenSA+error(median) 0.02315, GenSA 0.02219, QP 0.02219, deconstructSigs 0.02277, NMF 0.03080

# PD7221(optimal GSA error \* 1.05)



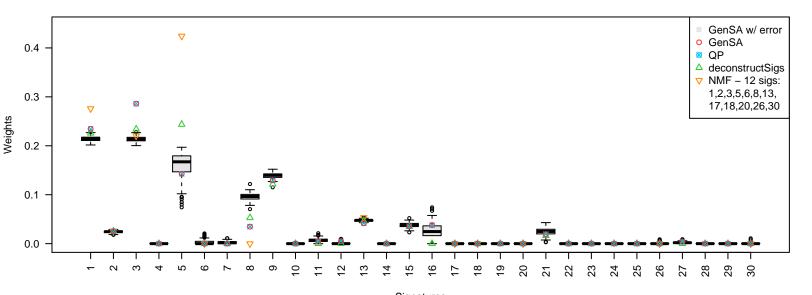
Signatures
GenSA+error(median) 0.02521, GenSA 0.02428, QP 0.02428, deconstructSigs 0.02486, NMF 0.03098

#### PD7238(optimal GSA error \* 1.05)



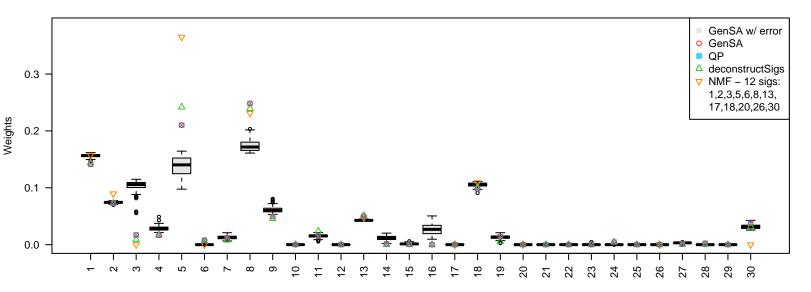
Signatures
GenSA+error(median) 0.02311, GenSA 0.02220, QP 0.02220, deconstructSigs 0.02247, NMF 0.03010

#### PD7240(optimal GSA error \* 1.05)



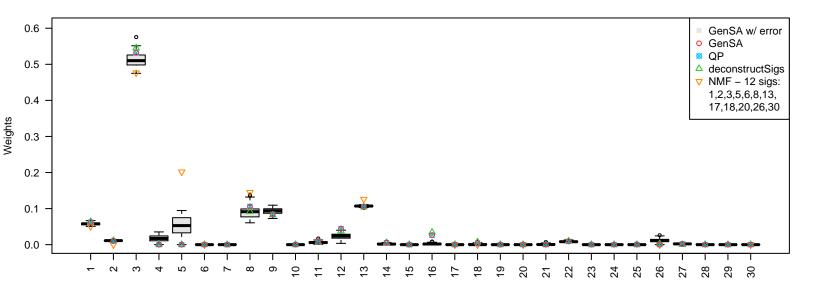
 $Signatures \\ GenSA+error(median)~0.02293,~GenSA~0.02204,~QP~0.02204,~deconstructSigs~0.02223,~NMF~0.02865$ 

#### PD7243(optimal GSA error \* 1.05)



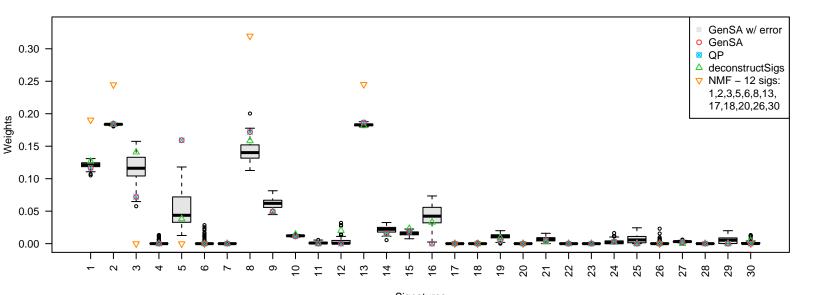
Signatures
GenSA+error(median) 0.01676, GenSA 0.01599, QP 0.01599, deconstructSigs 0.01614, NMF 0.02054

#### PD7248(optimal GSA error \* 1.05)



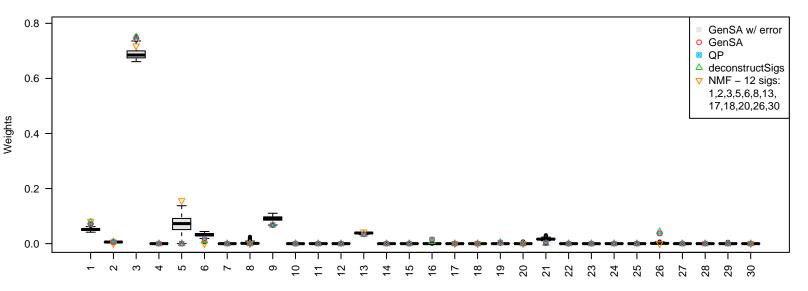
Signatures
GenSA+error(median) 0.01362, GenSA 0.01303, QP 0.01303, deconstructSigs 0.01311, NMF 0.01815

#### PD7249(optimal GSA error \* 1.05)



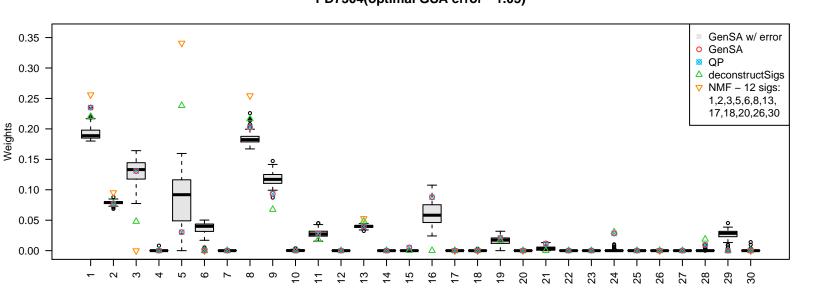
Signatures
GenSA+error(median) 0.01477, GenSA 0.01414, QP 0.01414, deconstructSigs 0.01463, NMF 0.05160

# PD7250(optimal GSA error \* 1.05)



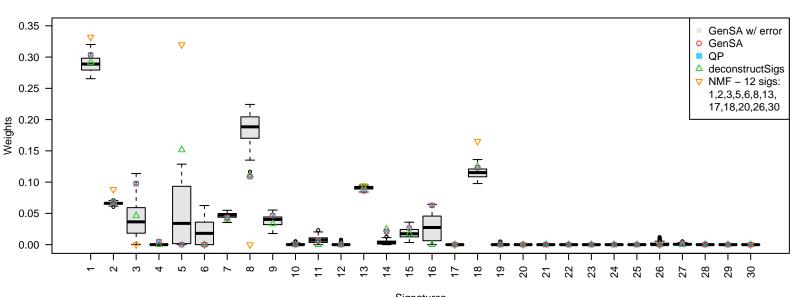
Signatures
GenSA+error(median) 0.01830, GenSA 0.01753, QP 0.01753, deconstructSigs 0.01757, NMF 0.01989

# PD7304(optimal GSA error \* 1.05)



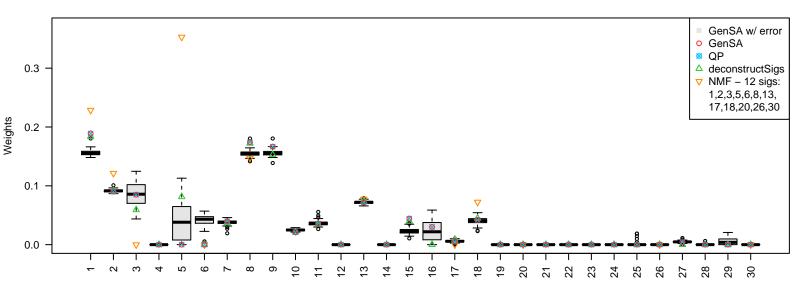
Signatures
GenSA+error(median) 0.02713, GenSA 0.02597, QP 0.02597, deconstructSigs 0.02644, NMF 0.03175

#### PD7305(optimal GSA error \* 1.05)



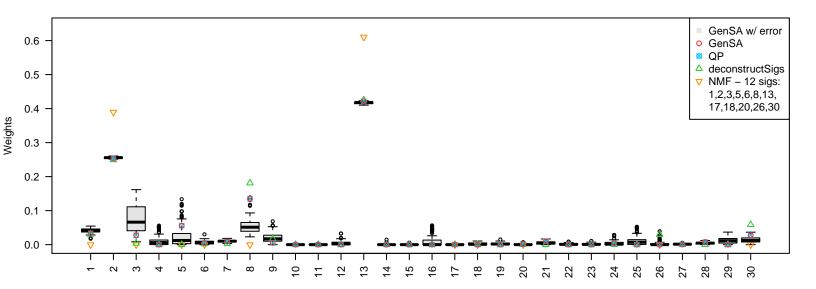
 $Signatures \\ GenSA+error(median)~0.02595,~GenSA~0.02490,~QP~0.02490,~deconstructSigs~0.02547,~NMF~0.03146$ 

#### PD7306(optimal GSA error \* 1.05)



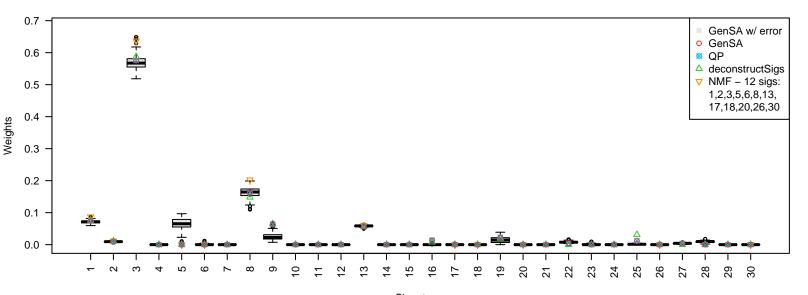
Signatures
GenSA+error(median) 0.02553, GenSA 0.02447, QP 0.02447, deconstructSigs 0.02474, NMF 0.03776

#### PD7307(optimal GSA error \* 1.05)



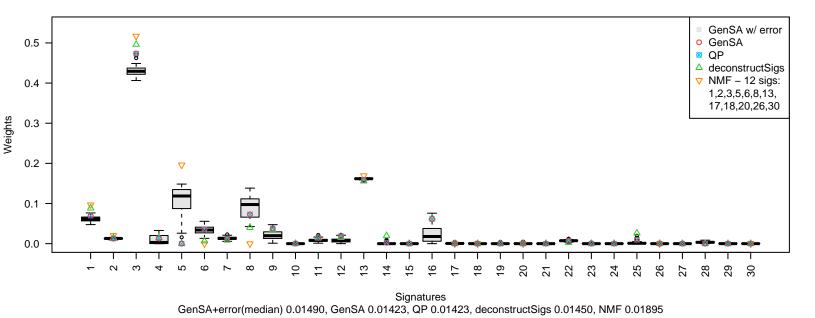
Signatures
GenSA+error(median) 0.02211, GenSA 0.02115, QP 0.02115, deconstructSigs 0.02165, NMF 0.12611

#### PD7316(optimal GSA error \* 1.05)

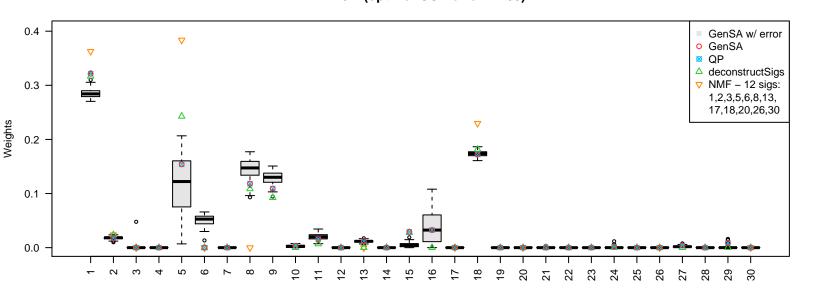


Signatures
GenSA+error(median) 0.01805, GenSA 0.01729, QP 0.01729, deconstructSigs 0.01740, NMF 0.02005

### PD7321(optimal GSA error \* 1.05)

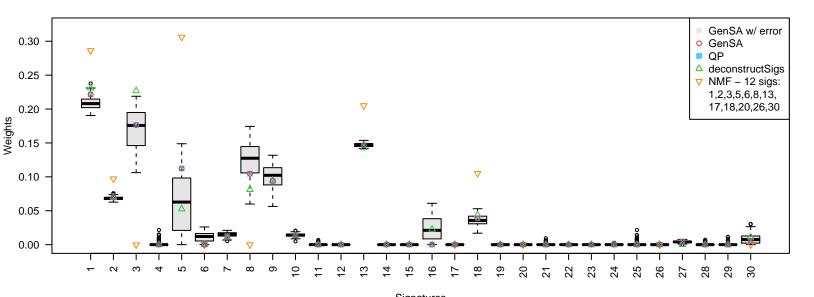


# PD7322(optimal GSA error \* 1.05)



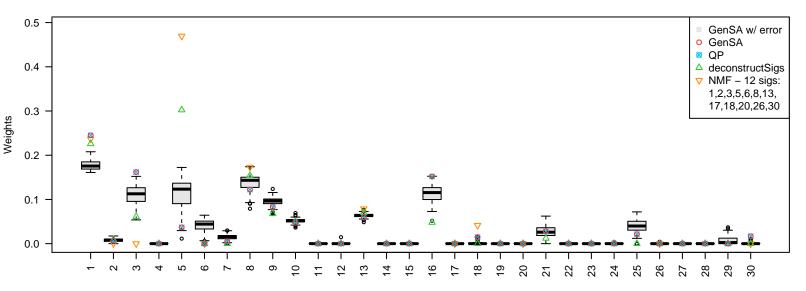
Signatures GenSA+error(median) 0.02979, GenSA 0.02852, QP 0.02852, deconstructSigs 0.02915, NMF 0.03385

#### PD7341(optimal GSA error \* 1.05)



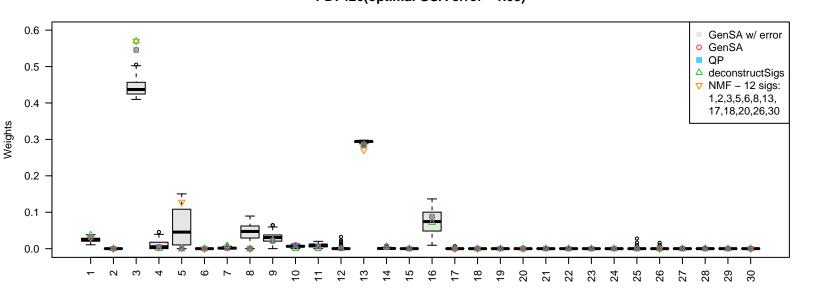
Signatures
GenSA+error(median) 0.01931, GenSA 0.01851, QP 0.01851, deconstructSigs 0.01883, NMF 0.04256

### PD7344(optimal GSA error \* 1.05)



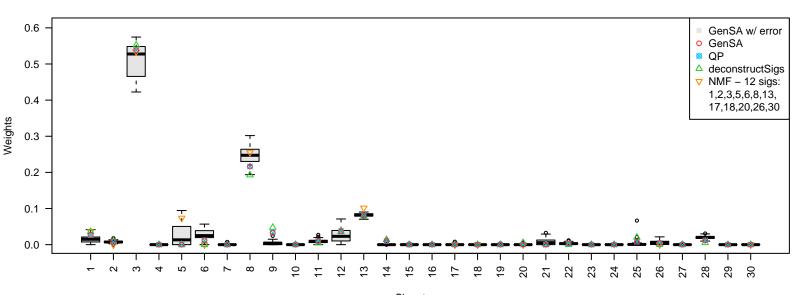
Signatures
GenSA+error(median) 0.04289, GenSA 0.04110, QP 0.04110, deconstructSigs 0.04155, NMF 0.04658

# PD7426(optimal GSA error \* 1.05)



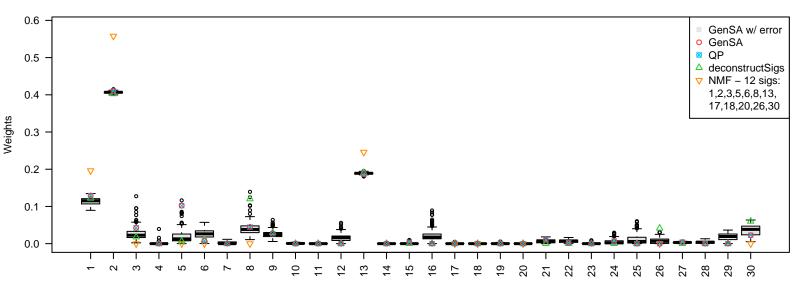
Signatures
GenSA+error(median) 0.02653, GenSA 0.02536, QP 0.02536, deconstructSigs 0.02565, NMF 0.02789

#### PD7428(optimal GSA error \* 1.05)



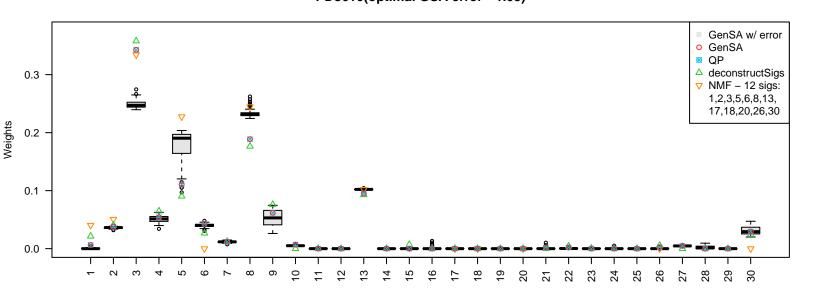
Signatures
GenSA+error(median) 0.02369, GenSA 0.02282, QP 0.02282, deconstructSigs 0.02295, NMF 0.02656

### PD8609(optimal GSA error \* 1.05)



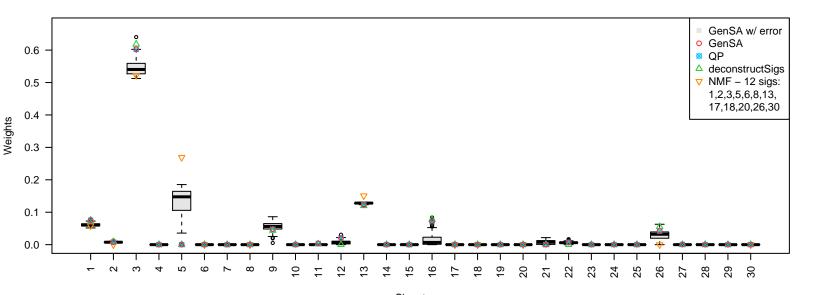
Signatures
GenSA+error(median) 0.02291, GenSA 0.02195, QP 0.02195, deconstructSigs 0.02282, NMF 0.08802

# PD8610(optimal GSA error \* 1.05)



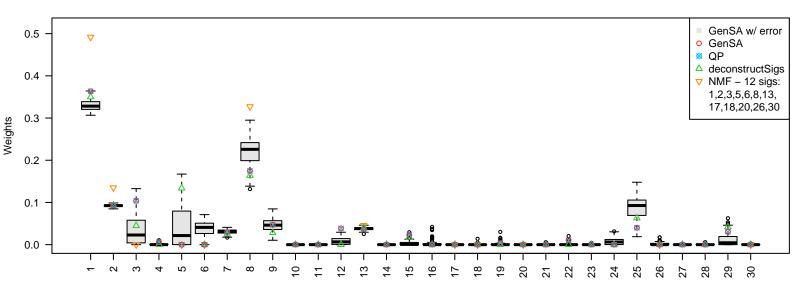
Signatures
GenSA+error(median) 0.01598, GenSA 0.01525, QP 0.01525, deconstructSigs 0.01564, NMF 0.01985

#### PD8611(optimal GSA error \* 1.05)



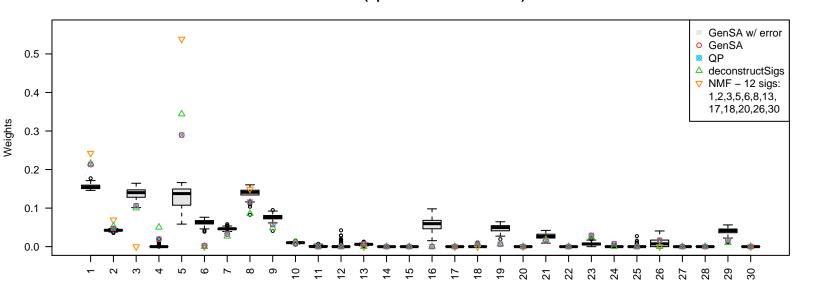
Signatures
GenSA+error(median) 0.01911, GenSA 0.01828, QP 0.01828, deconstructSigs 0.01844, NMF 0.02256

#### PD8612(optimal GSA error \* 1.05)



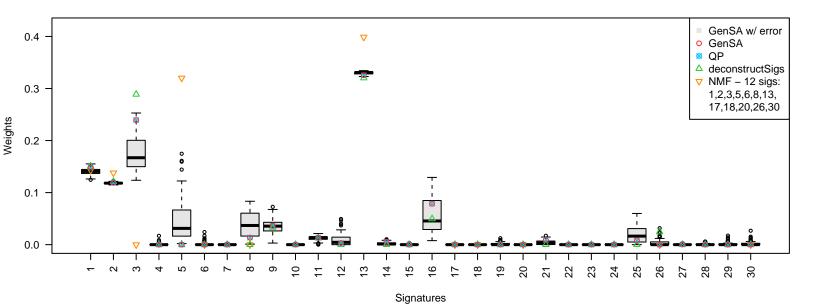
Signatures
GenSA+error(median) 0.02978, GenSA 0.02854, QP 0.02854, deconstructSigs 0.02893, NMF 0.04578

#### PD8614(optimal GSA error \* 1.05)



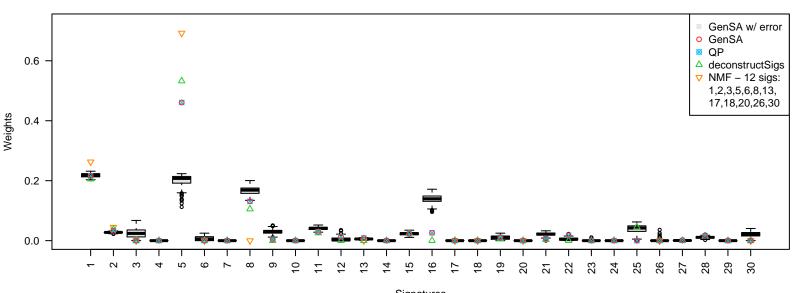
Signatures
GenSA+error(median) 0.03039, GenSA 0.02905, QP 0.02905, deconstructSigs 0.02934, NMF 0.03455

#### PD8615(optimal GSA error \* 1.05)



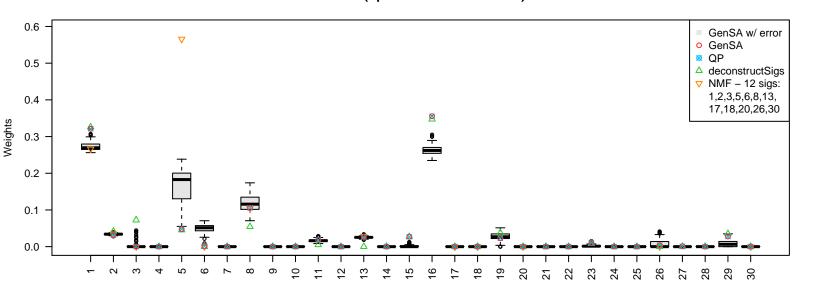
GenSA+error(median) 0.01773, GenSA 0.01697, QP 0.01697, deconstructSigs 0.01734, NMF 0.03740

#### PD8617(optimal GSA error \* 1.05)



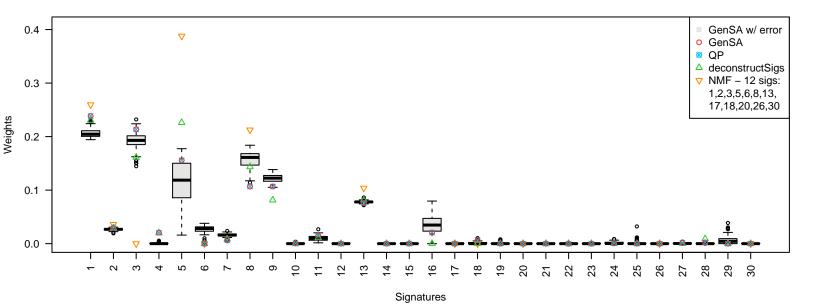
Signatures
GenSA+error(median) 0.02723, GenSA 0.02604, QP 0.02604, deconstructSigs 0.02653, NMF 0.03146

#### PD8618(optimal GSA error \* 1.05)



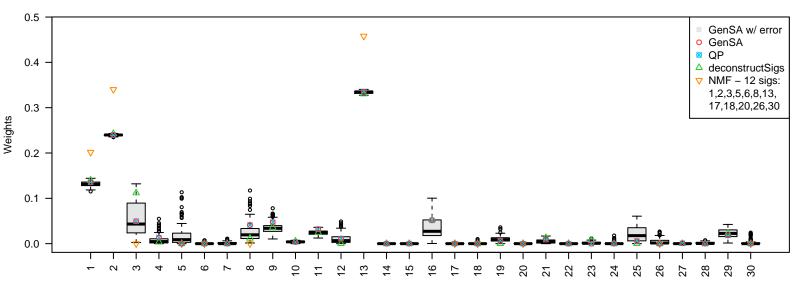
Signatures
GenSA+error(median) 0.02947, GenSA 0.02824, QP 0.02824, deconstructSigs 0.03001, NMF 0.03464

#### PD8619(optimal GSA error \* 1.05)



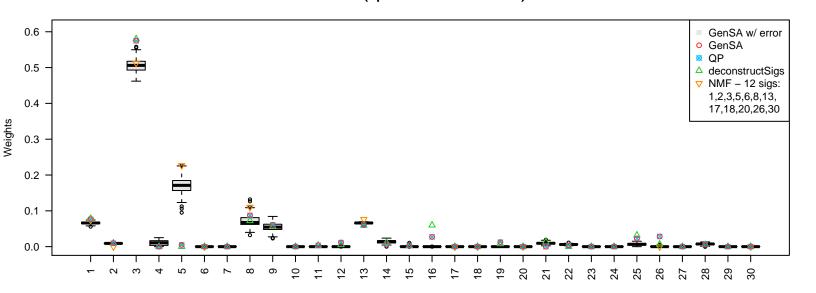
GenSA+error(median) 0.02432, GenSA 0.02328, QP 0.02328, deconstructSigs 0.02347, NMF 0.03034

### PD8620(optimal GSA error \* 1.05)



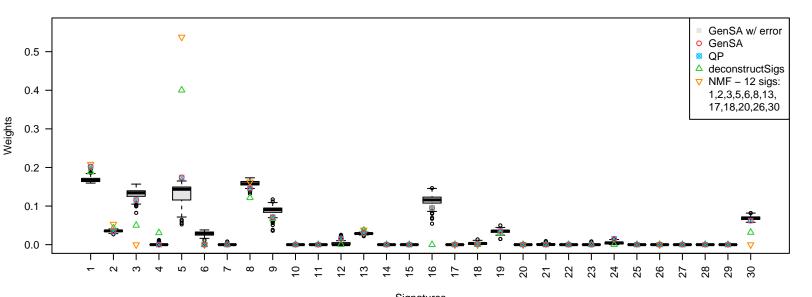
Signatures
GenSA+error(median) 0.01598, GenSA 0.01531, QP 0.01531, deconstructSigs 0.01574, NMF 0.08804

#### PD8621(optimal GSA error \* 1.05)



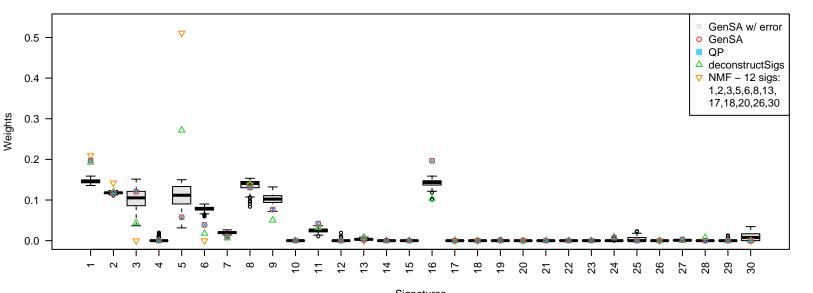
Signatures
GenSA+error(median) 0.01729, GenSA 0.01657, QP 0.01657, deconstructSigs 0.01670, NMF 0.01918

#### PD8622(optimal GSA error \* 1.05)



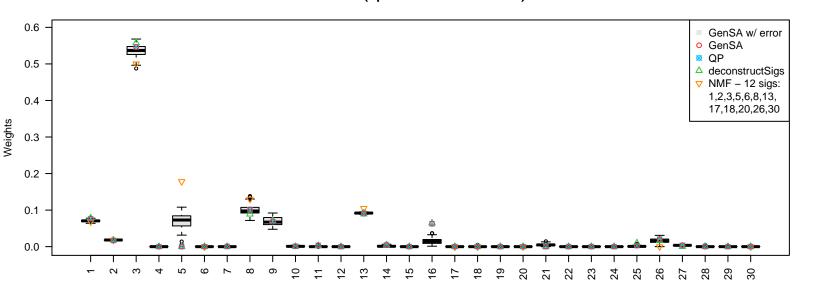
Signatures
GenSA+error(median) 0.02696, GenSA 0.02584, QP 0.02584, deconstructSigs 0.02631, NMF 0.02878

#### PD8623(optimal GSA error \* 1.05)



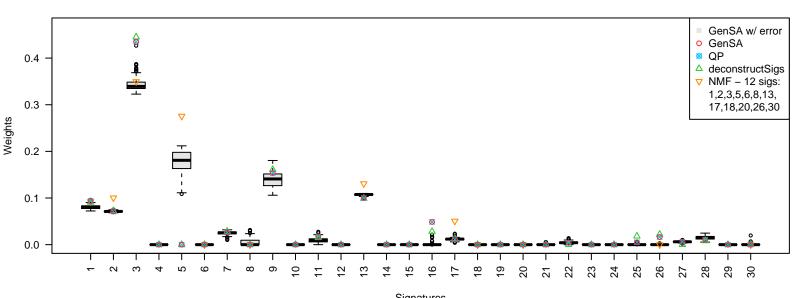
Signatures
GenSA+error(median) 0.02778, GenSA 0.02657, QP 0.02657, deconstructSigs 0.02711, NMF 0.03112

#### PD8652(optimal GSA error \* 1.05)



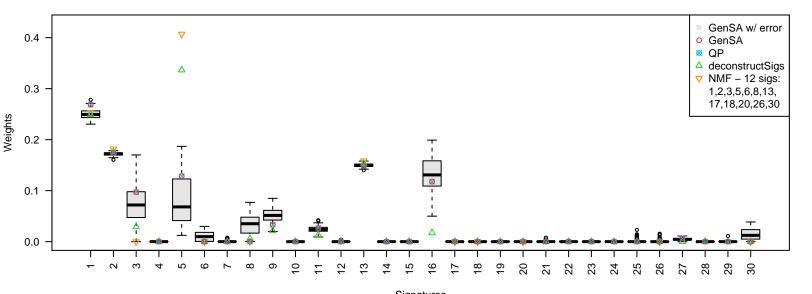
Signatures
GenSA+error(median) 0.01416, GenSA 0.01356, QP 0.01356, deconstructSigs 0.01367, NMF 0.01701

#### PD8660(optimal GSA error \* 1.05)



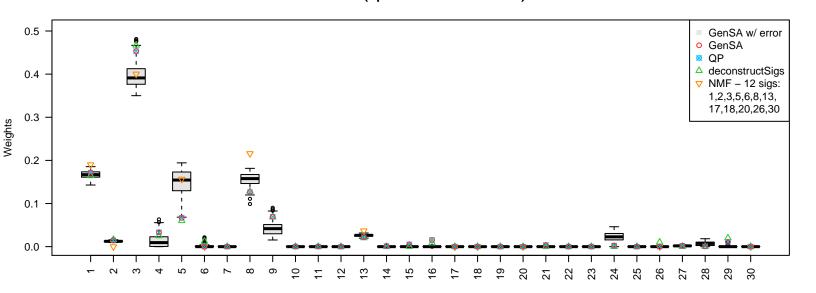
Signatures
GenSA+error(median) 0.02061, GenSA 0.01971, QP 0.01971, deconstructSigs 0.01991, NMF 0.03164

#### PD8828(optimal GSA error \* 1.05)



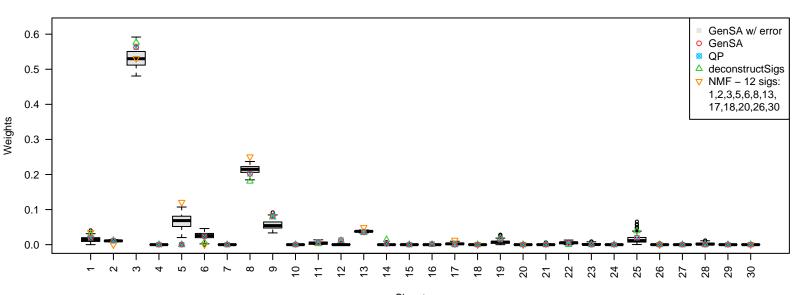
Signatures
GenSA+error(median) 0.02393, GenSA 0.02298, QP 0.02298, deconstructSigs 0.02367, NMF 0.02462

#### PD8830(optimal GSA error \* 1.05)



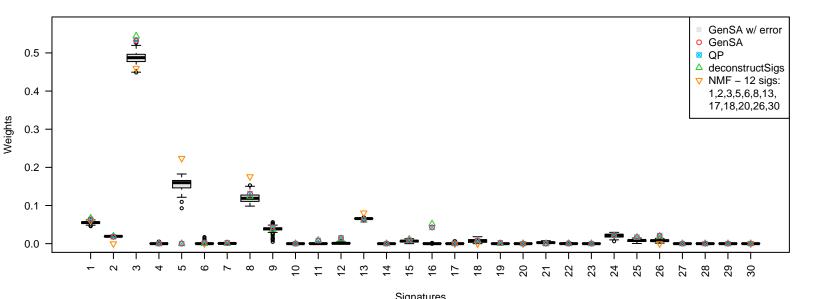
Signatures
GenSA+error(median) 0.01688, GenSA 0.01622, QP 0.01622, deconstructSigs 0.01634, NMF 0.01988

#### PD8832(optimal GSA error \* 1.05)



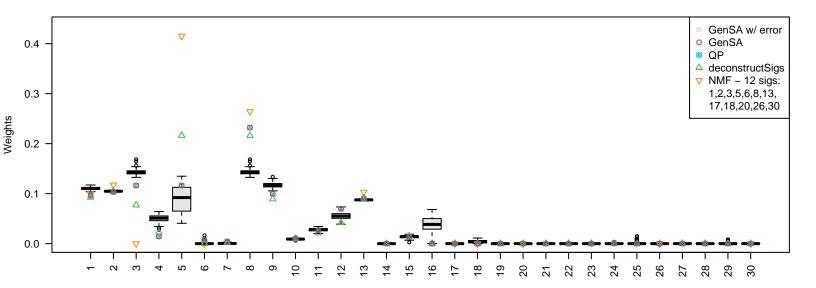
Signatures
GenSA+error(median) 0.01585, GenSA 0.01526, QP 0.01526, deconstructSigs 0.01538, NMF 0.01853

#### PD8964(optimal GSA error \* 1.05)



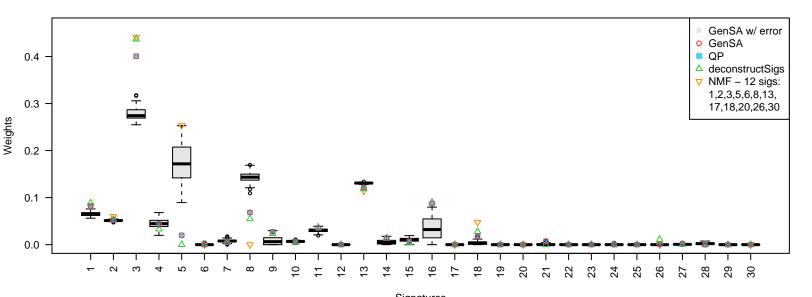
# Signatures GenSA+error(median) 0.01363, GenSA 0.01303, QP 0.01303, deconstructSigs 0.01308, NMF 0.01721

#### PD8965(optimal GSA error \* 1.05)



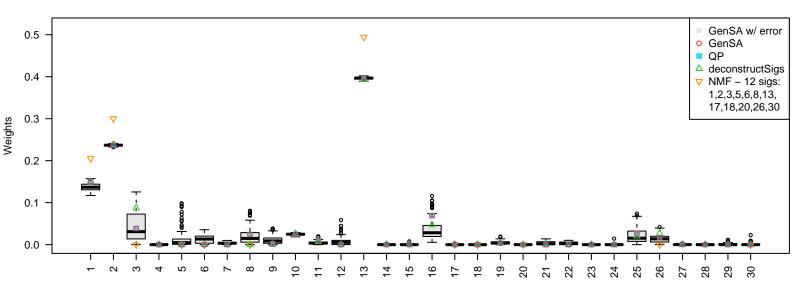
Signatures
GenSA+error(median) 0.02054, GenSA 0.01962, QP 0.01962, deconstructSigs 0.01985, NMF 0.02449

#### PD8969(optimal GSA error \* 1.05)



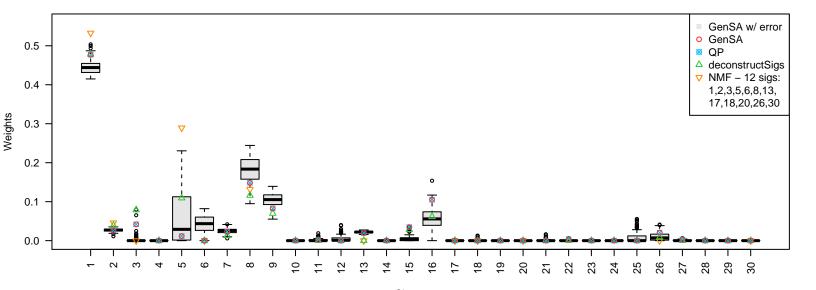
Signatures
GenSA+error(median) 0.02091, GenSA 0.01997, QP 0.01997, deconstructSigs 0.02012, NMF 0.02346

#### PD8973(optimal GSA error \* 1.05)



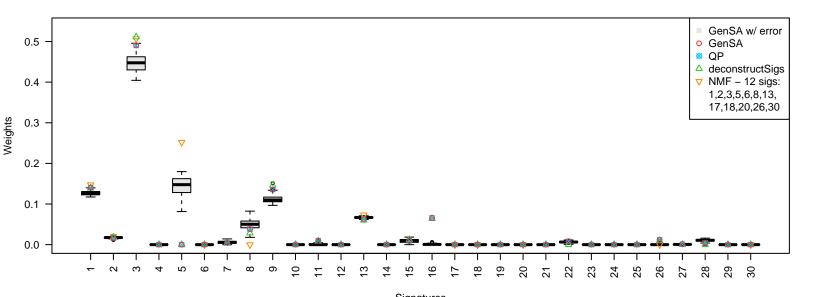
Signatures
GenSA+error(median) 0.01945, GenSA 0.01865, QP 0.01865, deconstructSigs 0.01891, NMF 0.06581

#### PD8977(optimal GSA error \* 1.05)



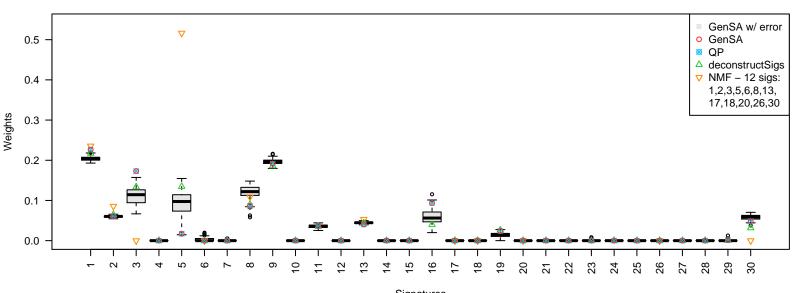
Signatures
GenSA+error(median) 0.03097, GenSA 0.02975, QP 0.02975, deconstructSigs 0.03094, NMF 0.03575

#### PD8978(optimal GSA error \* 1.05)



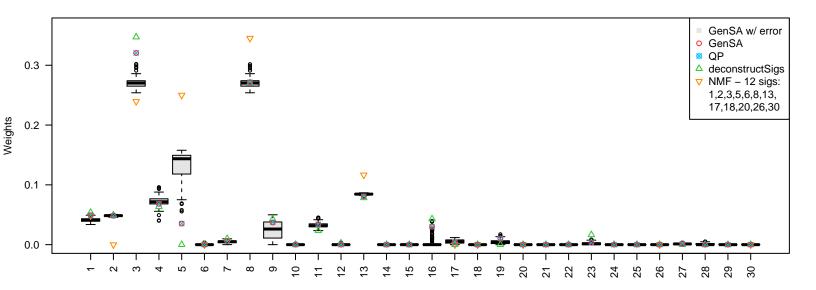
Signatures
GenSA+error(median) 0.02091, GenSA 0.01998, QP 0.01998, deconstructSigs 0.02020, NMF 0.02643

#### PD8979(optimal GSA error \* 1.05)



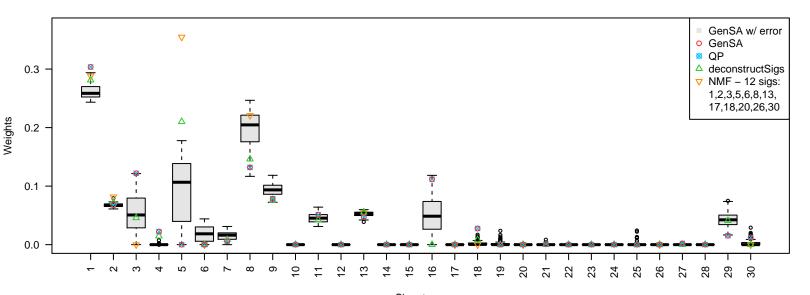
Signatures
GenSA+error(median) 0.01857, GenSA 0.01783, QP 0.01783, deconstructSigs 0.01806, NMF 0.03038

#### PD8980(optimal GSA error \* 1.05)



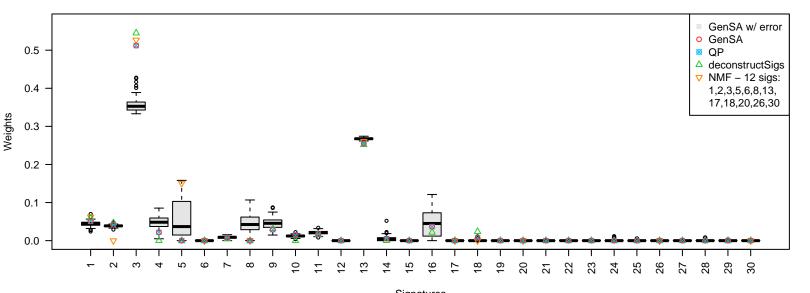
Signatures
GenSA+error(median) 0.01251, GenSA 0.01197, QP 0.01197, deconstructSigs 0.01212, NMF 0.03126

#### PD8981(optimal GSA error \* 1.05)



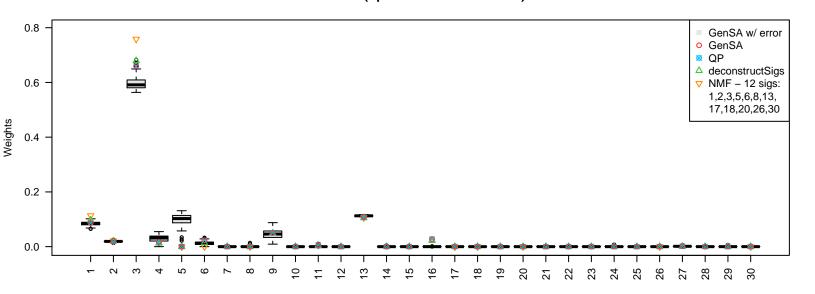
Signatures
GenSA+error(median) 0.03206, GenSA 0.03080, QP 0.03080, deconstructSigs 0.03141, NMF 0.03519

#### PD8982(optimal GSA error \* 1.05)



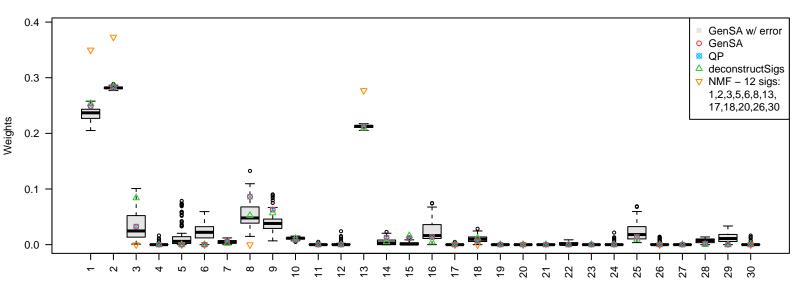
Signatures
GenSA+error(median) 0.03507, GenSA 0.03349, QP 0.03349, deconstructSigs 0.03393, NMF 0.04209

#### PD8984(optimal GSA error \* 1.05)



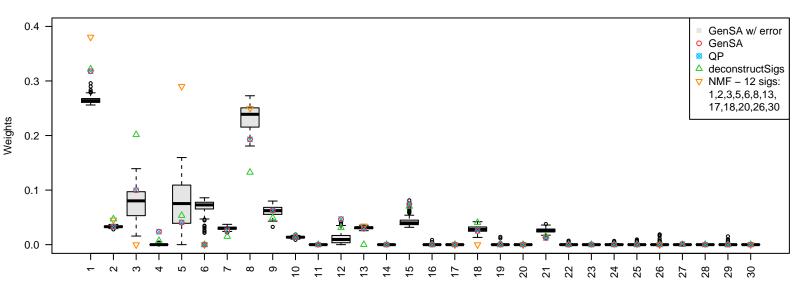
Signatures
GenSA+error(median) 0.02077, GenSA 0.01988, QP 0.01988, deconstructSigs 0.01998, NMF 0.02165

#### PD8995(optimal GSA error \* 1.05)



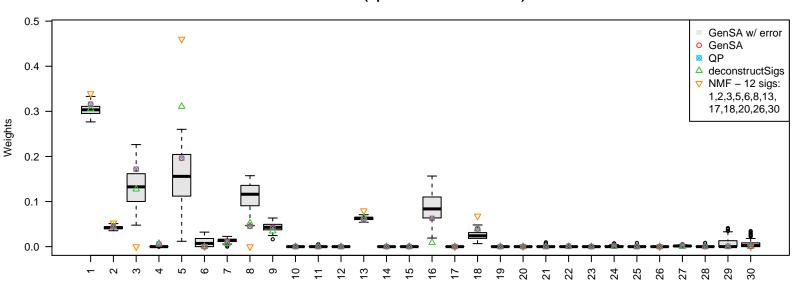
Signatures
GenSA+error(median) 0.02018, GenSA 0.01934, QP 0.01934, deconstructSigs 0.01960, NMF 0.06833

#### PD8996(optimal GSA error \* 1.05)



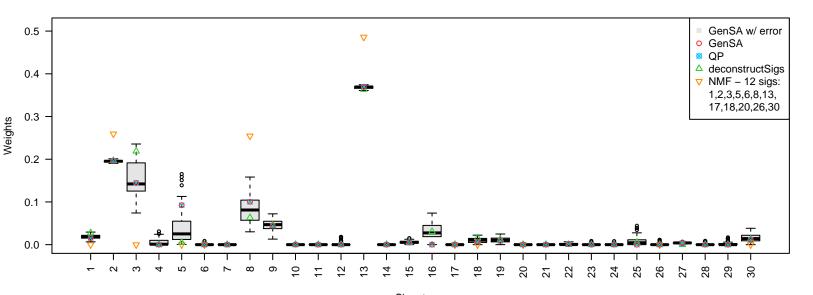
Signatures
GenSA+error(median) 0.02544, GenSA 0.02434, QP 0.02434, deconstructSigs 0.02653, NMF 0.03250

#### PD8997(optimal GSA error \* 1.05)



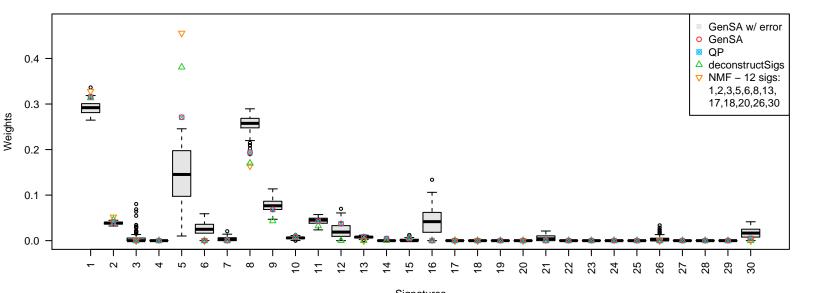
Signatures
GenSA+error(median) 0.02204, GenSA 0.02115, QP 0.02115, deconstructSigs 0.02141, NMF 0.02732

#### PD8998(optimal GSA error \* 1.05)



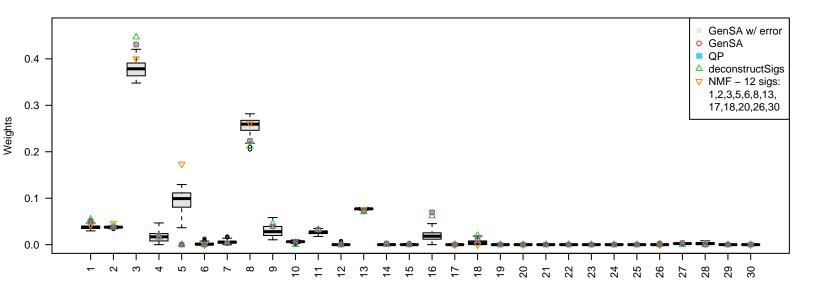
Signatures
GenSA+error(median) 0.01458, GenSA 0.01396, QP 0.01396, deconstructSigs 0.01453, NMF 0.06901

#### PD8999(optimal GSA error \* 1.05)



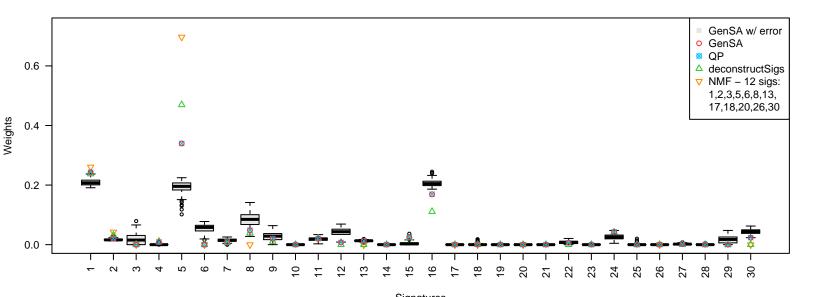
Signatures
GenSA+error(median) 0.03091, GenSA 0.02962, QP 0.02962, deconstructSigs 0.03006, NMF 0.03211

#### PD9000(optimal GSA error \* 1.05)



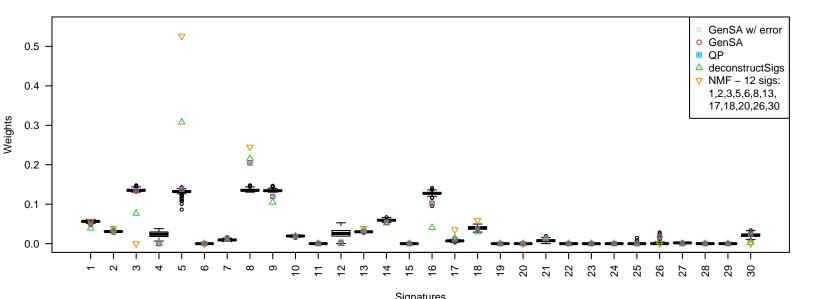
Signatures
GenSA+error(median) 0.01467, GenSA 0.01404, QP 0.01404, deconstructSigs 0.01432, NMF 0.01734

#### PD9001(optimal GSA error \* 1.05)



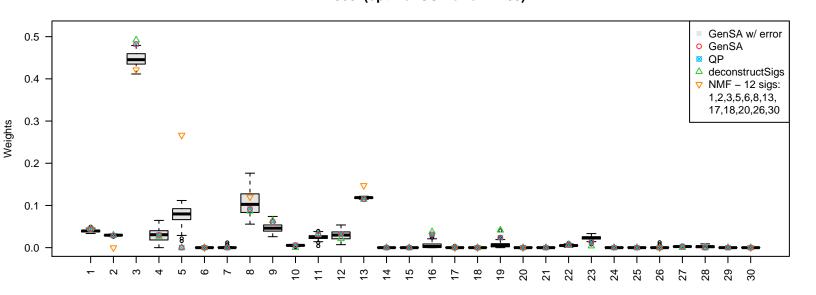
Signatures
GenSA+error(median) 0.02919, GenSA 0.02802, QP 0.02802, deconstructSigs 0.02872, NMF 0.03232

#### PD9002(optimal GSA error \* 1.05)



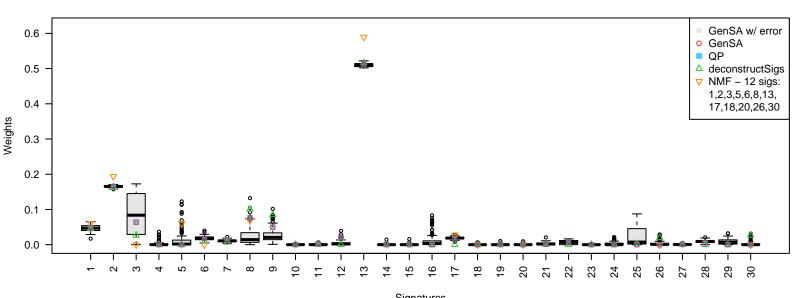
Signatures
GenSA+error(median) 0.01768, GenSA 0.01691, QP 0.01691, deconstructSigs 0.01725, NMF 0.02306

# PD9004(optimal GSA error \* 1.05)



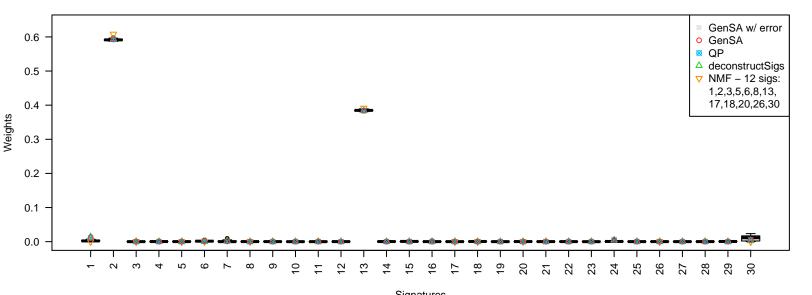
Signatures
GenSA+error(median) 0.01837, GenSA 0.01754, QP 0.01754, deconstructSigs 0.01778, NMF 0.02890

#### PD9009(optimal GSA error \* 1.05)



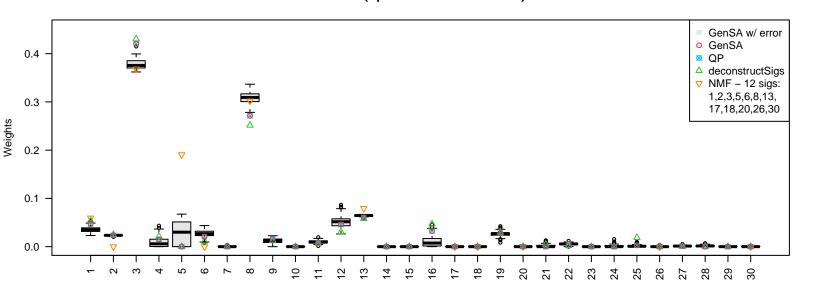
Signatures
GenSA+error(median) 0.02180, GenSA 0.02084, QP 0.02084, deconstructSigs 0.02176, NMF 0.04553

#### PD9063(optimal GSA error \* 1.05)



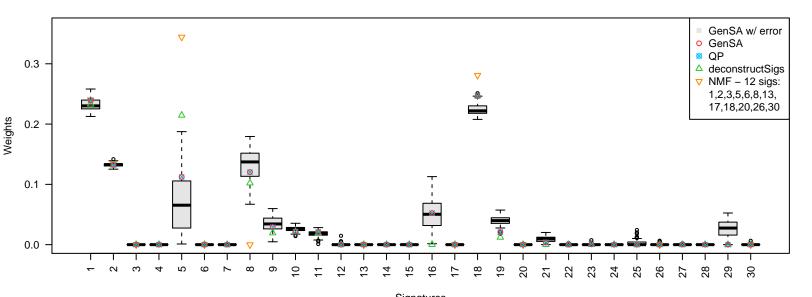
Signatures
GenSA+error(median) 0.00997, GenSA 0.00958, QP 0.00958, deconstructSigs 0.00960, NMF 0.01332

#### PD9064(optimal GSA error \* 1.05)



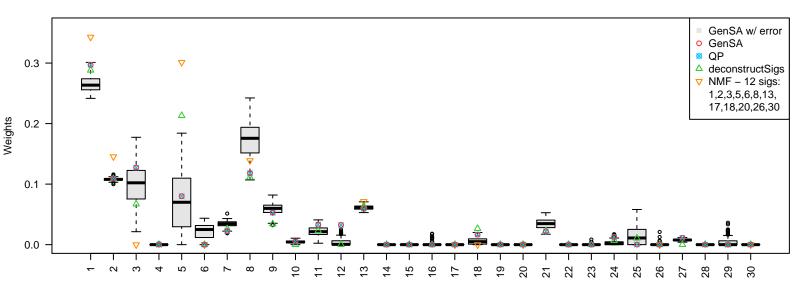
Signatures
GenSA+error(median) 0.01582, GenSA 0.01515, QP 0.01515, deconstructSigs 0.01530, NMF 0.02124

#### PD9065(optimal GSA error \* 1.05)



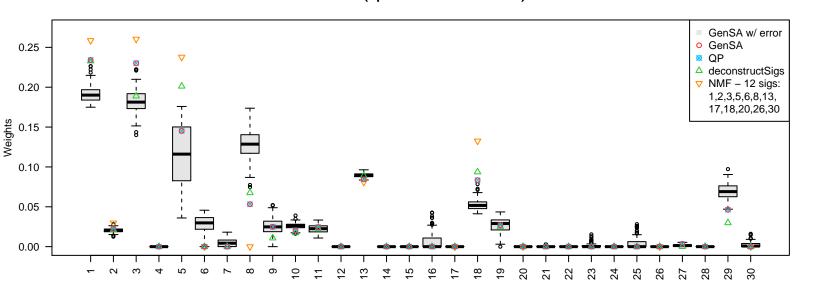
Signatures
GenSA+error(median) 0.02348, GenSA 0.02262, QP 0.02262, deconstructSigs 0.02284, NMF 0.02598

# PD9067(optimal GSA error \* 1.05)



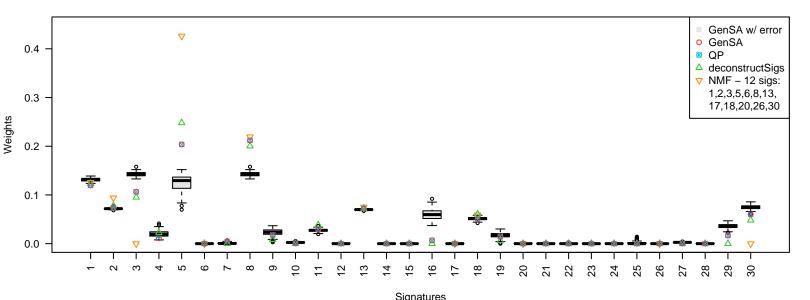
Signatures
GenSA+error(median) 0.02783, GenSA 0.02668, QP 0.02668, deconstructSigs 0.02731, NMF 0.03559

#### PD9193(optimal GSA error \* 1.05)



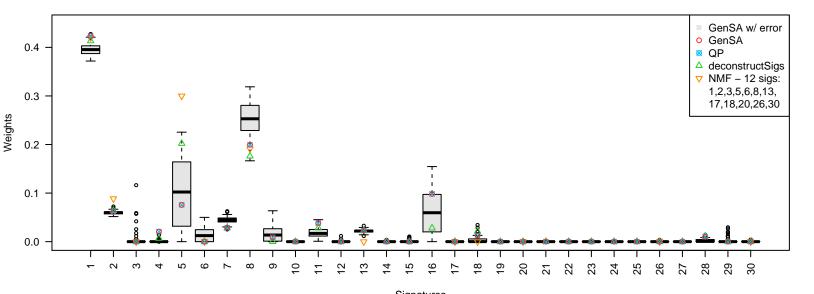
Signatures
GenSA+error(median) 0.03204, GenSA 0.03070, QP 0.03070, deconstructSigs 0.03089, NMF 0.03289

#### PD9464(optimal GSA error \* 1.05)



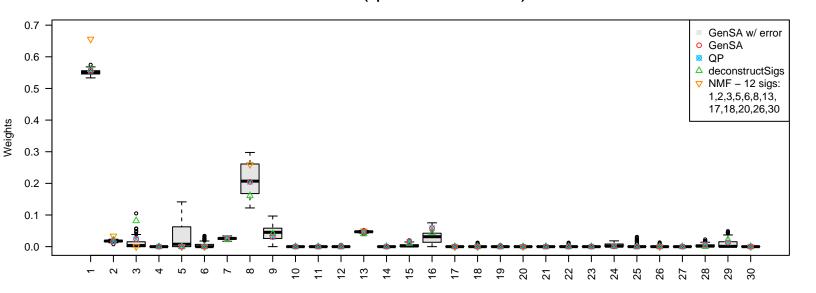
Signatures
GenSA+error(median) 0.01779, GenSA 0.01702, QP 0.01702, deconstructSigs 0.01720, NMF 0.02448

#### PD9467(optimal GSA error \* 1.05)



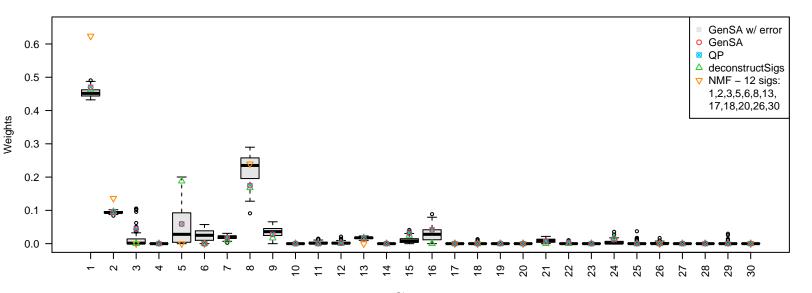
Signatures
GenSA+error(median) 0.03017, GenSA 0.02901, QP 0.02901, deconstructSigs 0.02934, NMF 0.03409

#### PD9539(optimal GSA error \* 1.05)



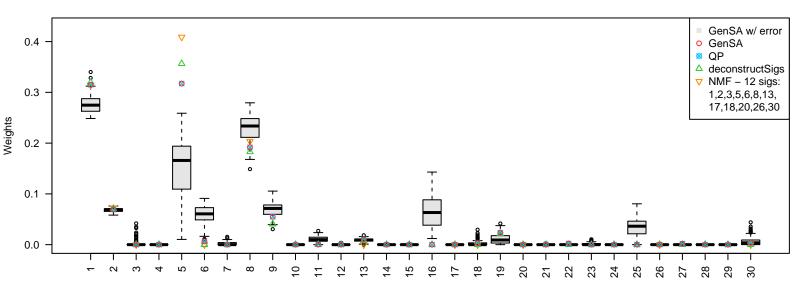
Signatures
GenSA+error(median) 0.02437, GenSA 0.02341, QP 0.02341, deconstructSigs 0.02369, NMF 0.03380

#### PD9541(optimal GSA error \* 1.05)



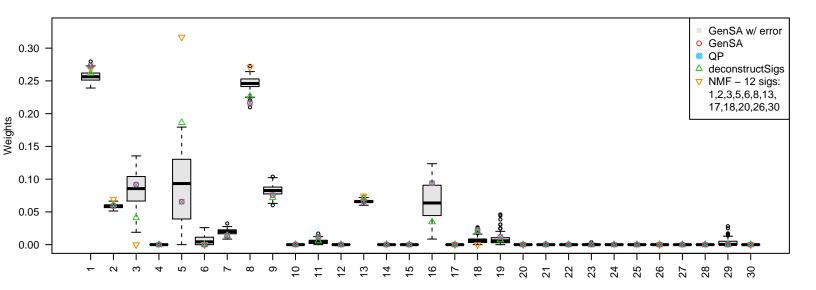
Signatures
GenSA+error(median) 0.02812, GenSA 0.02698, QP 0.02698, deconstructSigs 0.02721, NMF 0.04659

#### PD9544(optimal GSA error \* 1.05)



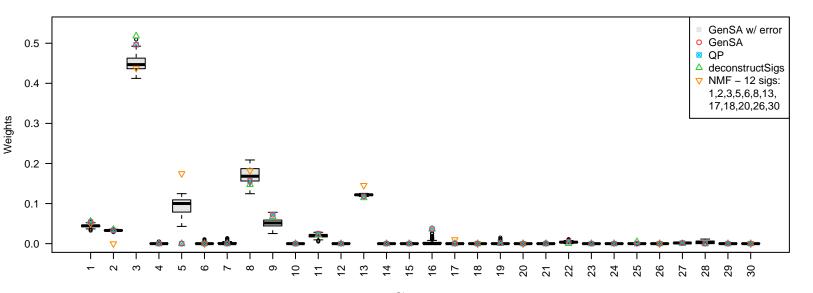
Signatures
GenSA+error(median) 0.03538, GenSA 0.03396, QP 0.03396, deconstructSigs 0.03407, NMF 0.03479

#### PD9567(optimal GSA error \* 1.05)



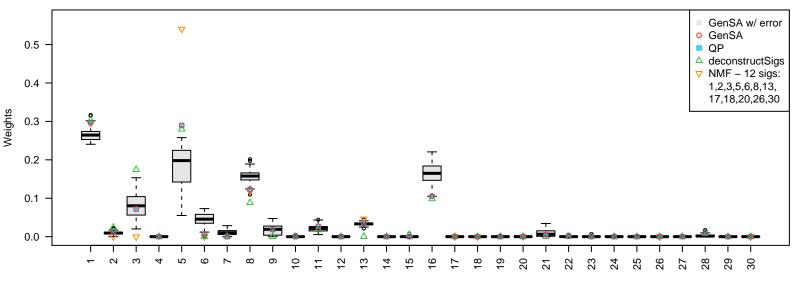
Signatures
GenSA+error(median) 0.02035, GenSA 0.01961, QP 0.01961, deconstructSigs 0.01987, NMF 0.02251

#### PD9568(optimal GSA error \* 1.05)



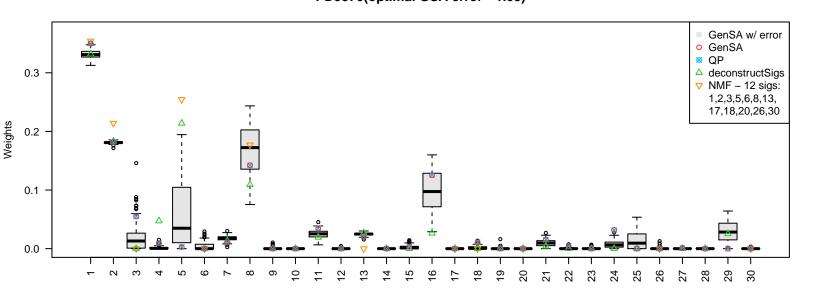
Signatures
GenSA+error(median) 0.01747, GenSA 0.01674, QP 0.01674, deconstructSigs 0.01690, NMF 0.02549

#### PD9569(optimal GSA error \* 1.05)



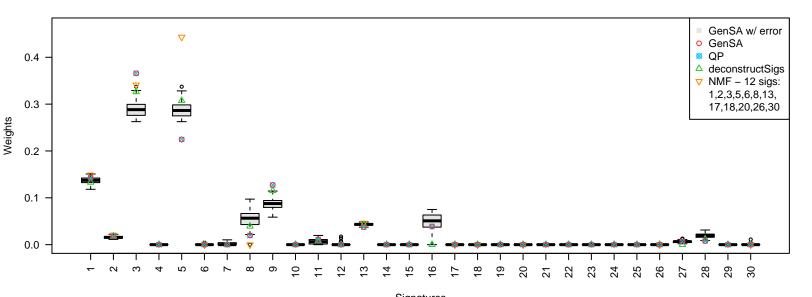
Signatures
GenSA+error(median) 0.02795, GenSA 0.02693, QP 0.02693, deconstructSigs 0.02967, NMF 0.02891

# PD9570(optimal GSA error \* 1.05)



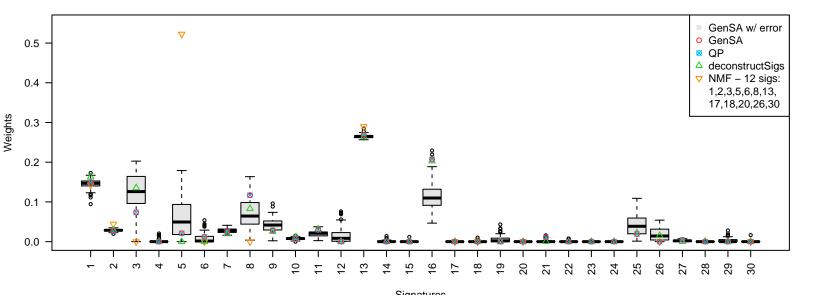
Signatures
GenSA+error(median) 0.02134, GenSA 0.02048, QP 0.02048, deconstructSigs 0.02122, NMF 0.02681

#### PD9571(optimal GSA error \* 1.05)



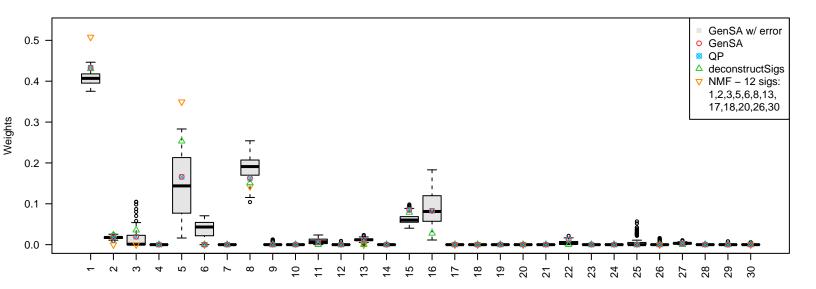
 $Signatures \\ GenSA+error(median)~0.02106,~GenSA~0.02023,~QP~0.02023,~deconstructSigs~0.02049,~NMF~0.02564$ 

#### PD9572(optimal GSA error \* 1.05)



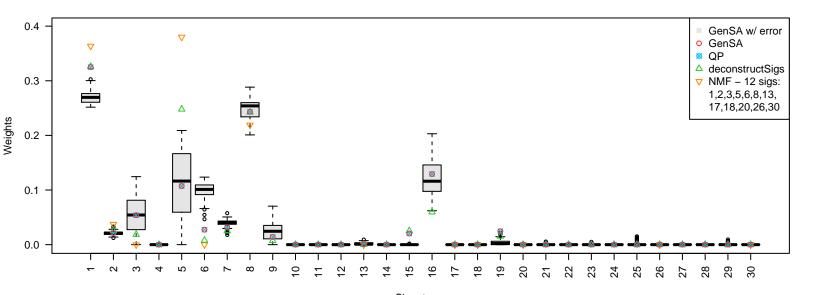
Signatures
GenSA+error(median) 0.02838, GenSA 0.02716, QP 0.02716, deconstructSigs 0.02743, NMF 0.03292

#### PD9573(optimal GSA error \* 1.05)



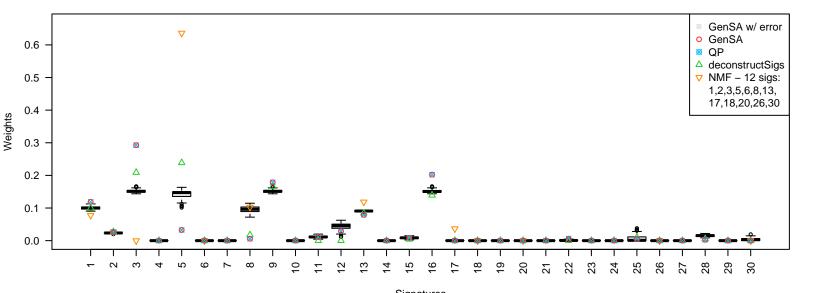
Signatures
GenSA+error(median) 0.03204, GenSA 0.03081, QP 0.03081, deconstructSigs 0.03154, NMF 0.03891

#### PD9574(optimal GSA error \* 1.05)



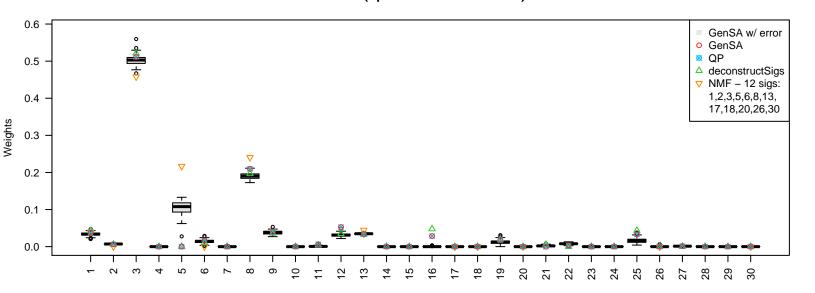
Signatures
GenSA+error(median) 0.02981, GenSA 0.02865, QP 0.02865, deconstructSigs 0.02895, NMF 0.03134

#### PD9575(optimal GSA error \* 1.05)



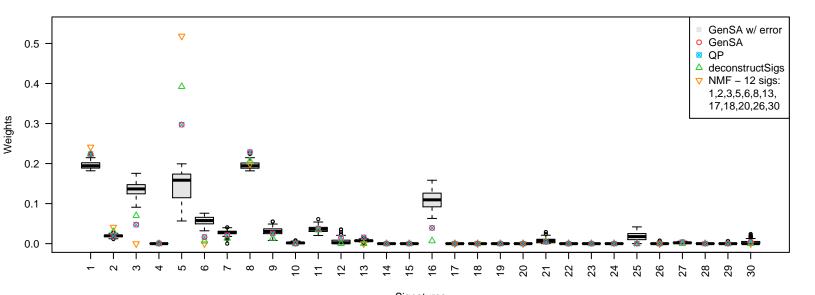
Signatures
GenSA+error(median) 0.02541, GenSA 0.02428, QP 0.02428, deconstructSigs 0.02470, NMF 0.03297

#### PD9576(optimal GSA error \* 1.05)



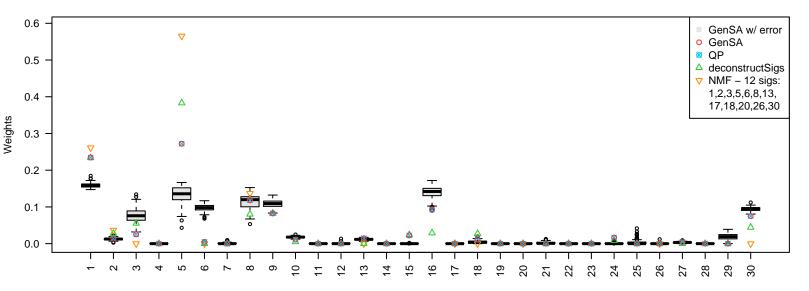
Signatures
GenSA+error(median) 0.01553, GenSA 0.01485, QP 0.01485, deconstructSigs 0.01496, NMF 0.01739

#### PD9577(optimal GSA error \* 1.05)



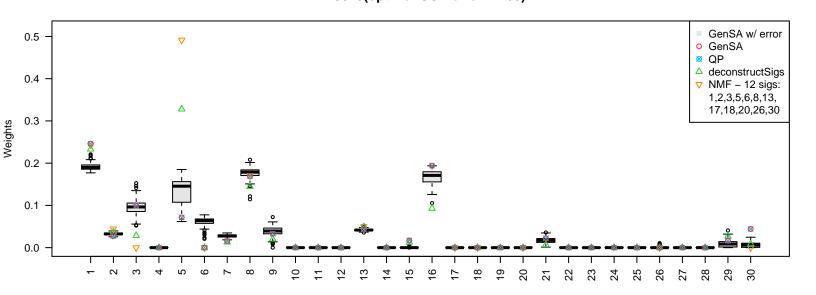
Signatures
GenSA+error(median) 0.02791, GenSA 0.02681, QP 0.02681, deconstructSigs 0.02766, NMF 0.03083

### PD9578(optimal GSA error \* 1.05)



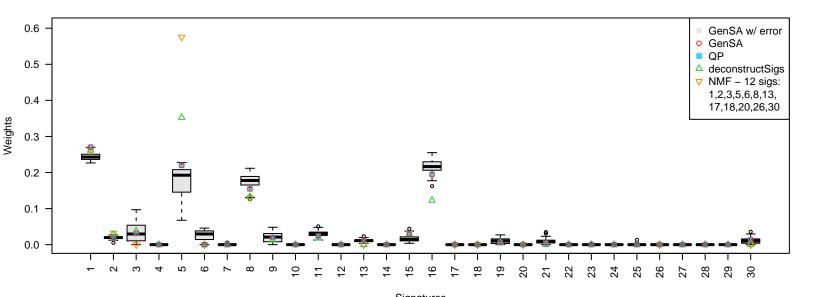
Signatures
GenSA+error(median) 0.03744, GenSA 0.03582, QP 0.03582, deconstructSigs 0.03651, NMF 0.03906

# PD9579(optimal GSA error \* 1.05)



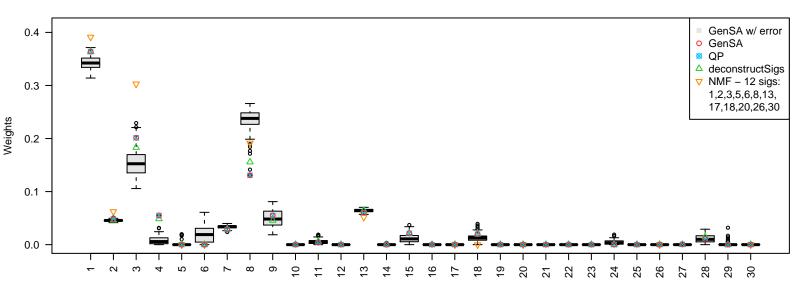
Signatures
GenSA+error(median) 0.02903, GenSA 0.02783, QP 0.02783, deconstructSigs 0.02842, NMF 0.02977

#### PD9581(optimal GSA error \* 1.05)



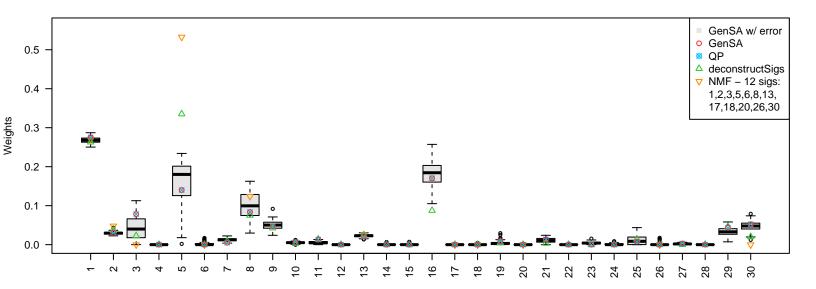
Signatures
GenSA+error(median) 0.03164, GenSA 0.03039, QP 0.03039, deconstructSigs 0.03101, NMF 0.03289

#### PD9582(optimal GSA error \* 1.05)



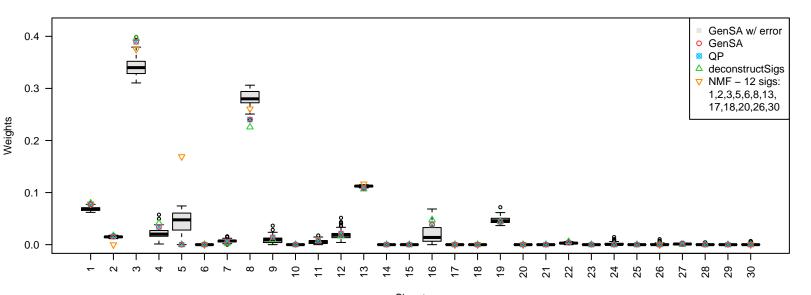
Signatures
GenSA+error(median) 0.02684, GenSA 0.02571, QP 0.02571, deconstructSigs 0.02579, NMF 0.02984

#### PD9584(optimal GSA error \* 1.05)



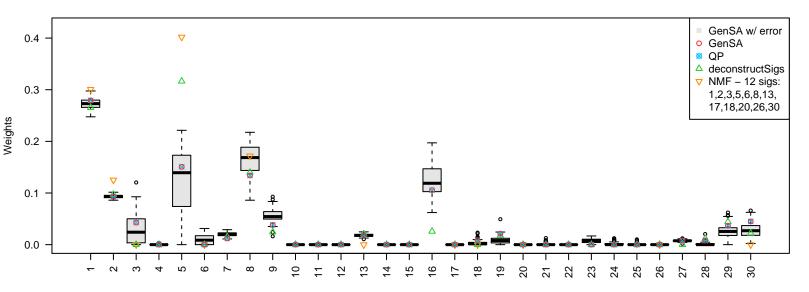
Signatures
GenSA+error(median) 0.02085, GenSA 0.02014, QP 0.02014, deconstructSigs 0.02059, NMF 0.02315

#### PD9585(optimal GSA error \* 1.05)



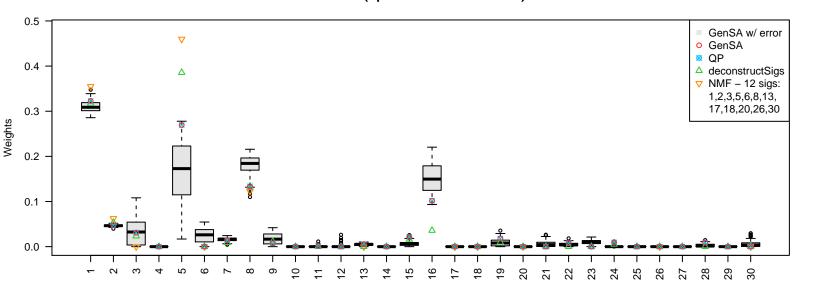
Signatures
GenSA+error(median) 0.01565, GenSA 0.01496, QP 0.01496, deconstructSigs 0.01504, NMF 0.02028

#### PD9589(optimal GSA error \* 1.05)



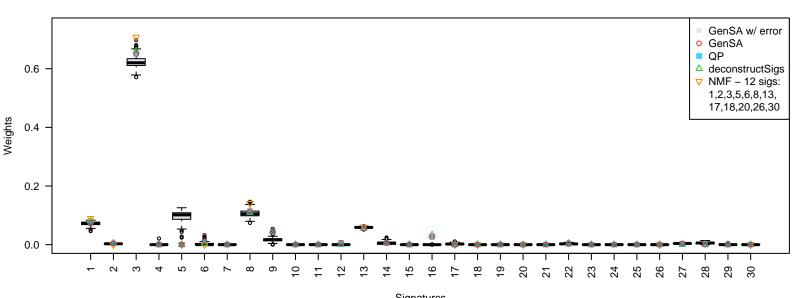
Signatures
GenSA+error(median) 0.02327, GenSA 0.02242, QP 0.02242, deconstructSigs 0.02291, NMF 0.02732

#### PD9591(optimal GSA error \* 1.05)



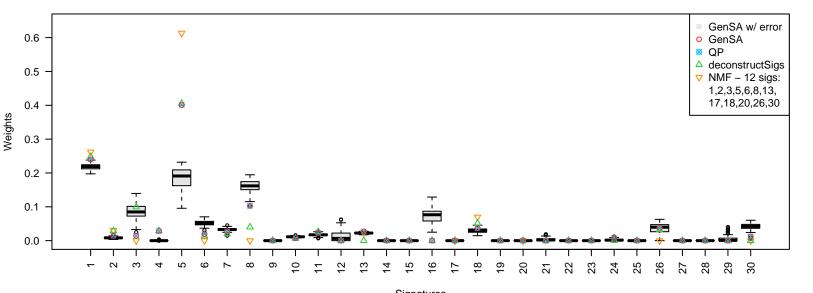
Signatures
GenSA+error(median) 0.02682, GenSA 0.02580, QP 0.02580, deconstructSigs 0.02631, NMF 0.02838

#### PD9592(optimal GSA error \* 1.05)



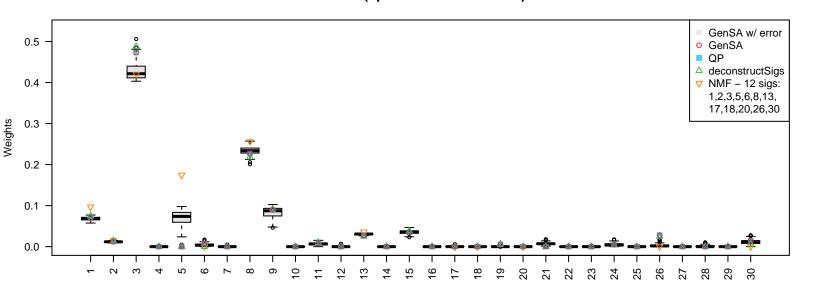
Signatures
GenSA+error(median) 0.01721, GenSA 0.01649, QP 0.01649, deconstructSigs 0.01659, NMF 0.01858

#### PD9593(optimal GSA error \* 1.05)



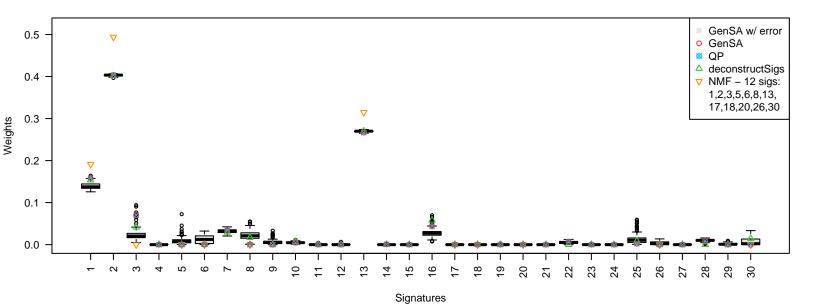
 $Signatures \\ GenSA+error(median)~0.02800,~GenSA~0.02677,~QP~0.02677,~deconstructSigs~0.02847,~NMF~0.03054$ 

#### PD9595(optimal GSA error \* 1.05)



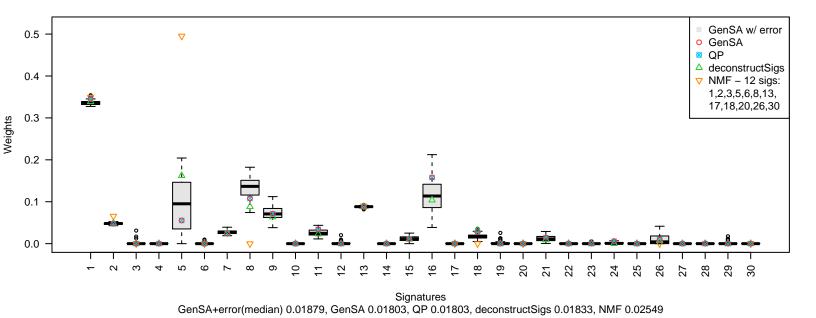
Signatures
GenSA+error(median) 0.01399, GenSA 0.01341, QP 0.01341, deconstructSigs 0.01346, NMF 0.01894

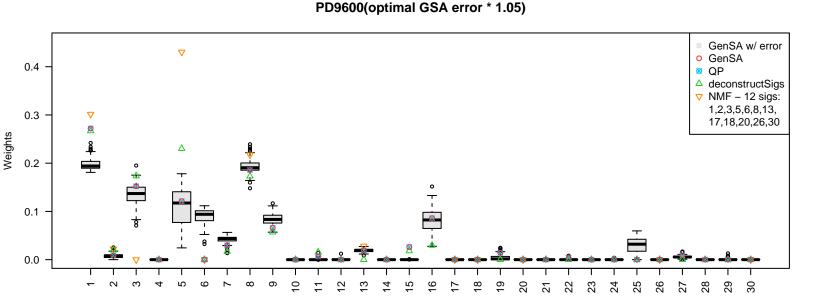
#### PD9597(optimal GSA error \* 1.05)



GenSA+error(median) 0.01649, GenSA 0.01580, QP 0.01580, deconstructSigs 0.01620, NMF 0.05377

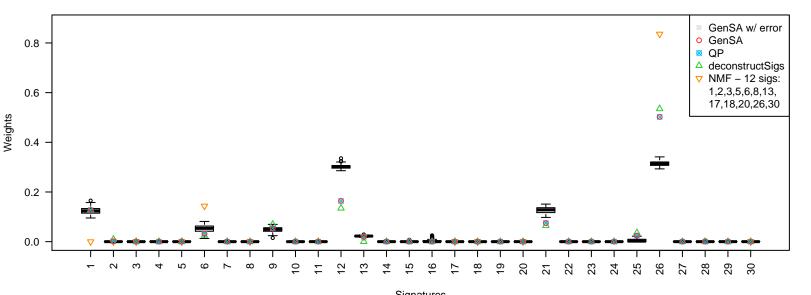
#### PD9599(optimal GSA error \* 1.05)





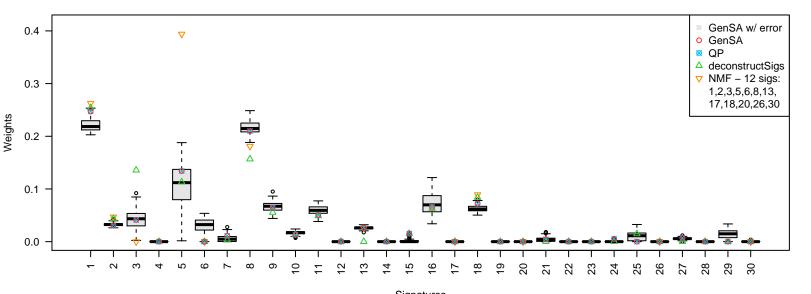
Signatures
GenSA+error(median) 0.03734, GenSA 0.03575, QP 0.03575, deconstructSigs 0.03695, NMF 0.03916

#### PD9604(optimal GSA error \* 1.05)



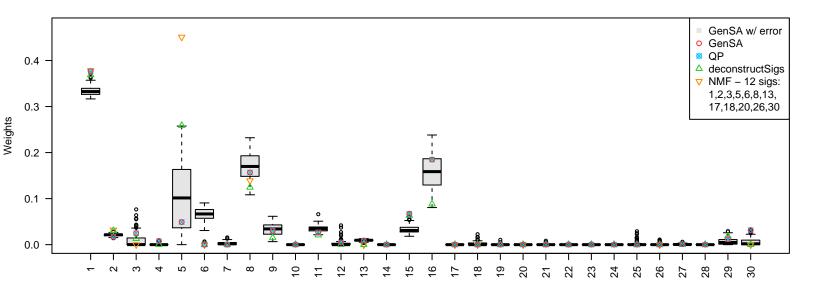
Signatures
GenSA+error(median) 0.03646, GenSA 0.03485, QP 0.03485, deconstructSigs 0.03582, NMF 0.04595

#### PD9605(optimal GSA error \* 1.05)



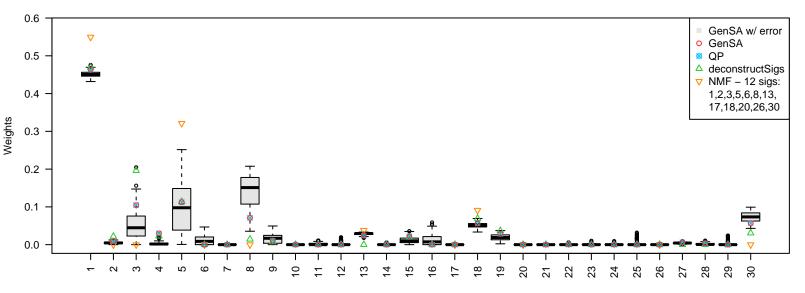
Signatures
GenSA+error(median) 0.02223, GenSA 0.02136, QP 0.02136, deconstructSigs 0.02344, NMF 0.02694

#### PD9606(optimal GSA error \* 1.05)



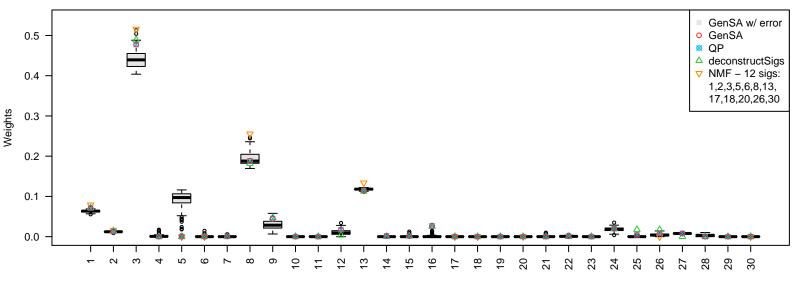
Signatures
GenSA+error(median) 0.03364, GenSA 0.03231, QP 0.03231, deconstructSigs 0.03302, NMF 0.03671

#### PD9694(optimal GSA error \* 1.05)



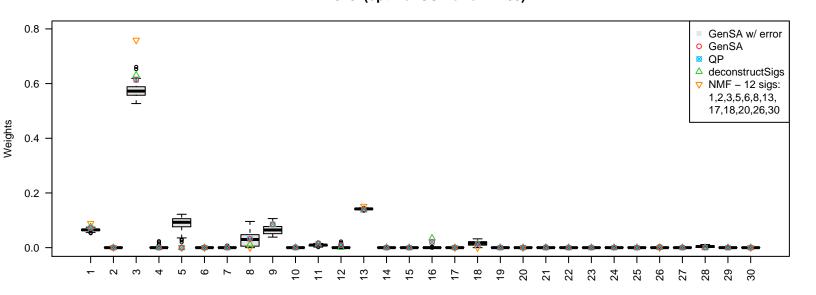
Signatures
GenSA+error(median) 0.02563, GenSA 0.02455, QP 0.02455, deconstructSigs 0.02610, NMF 0.03442

### PD9696(optimal GSA error \* 1.05)



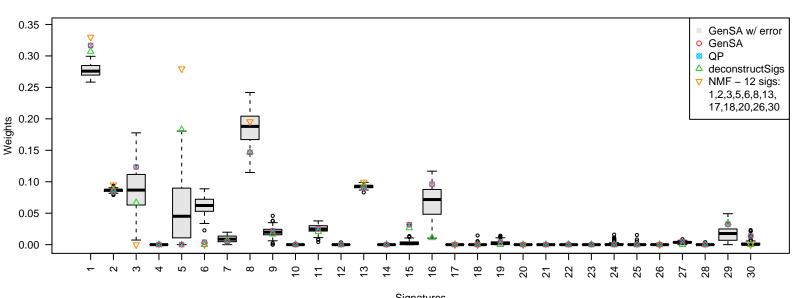
Signatures
GenSA+error(median) 0.01559, GenSA 0.01489, QP 0.01489, deconstructSigs 0.01519, NMF 0.02033

# PD9702(optimal GSA error \* 1.05)



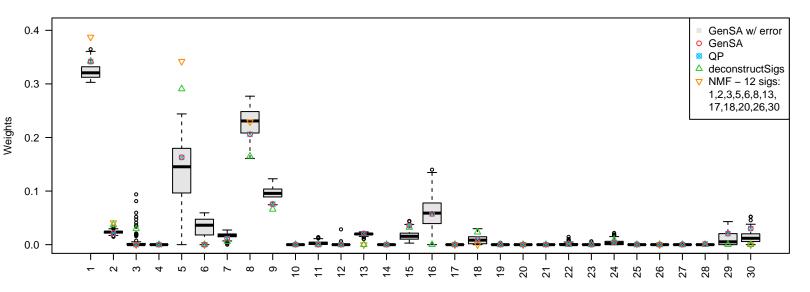
Signatures
GenSA+error(median) 0.01831, GenSA 0.01756, QP 0.01756, deconstructSigs 0.01763, NMF 0.02389

#### PD9752(optimal GSA error \* 1.05)



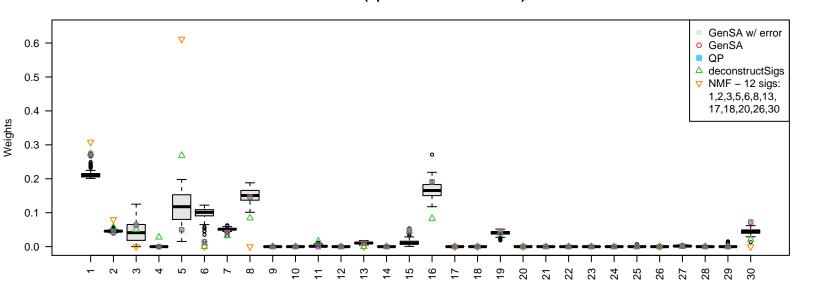
 $Signatures \\ GenSA+error(median)~0.02324,~GenSA~0.02226,~QP~0.02226,~deconstructSigs~0.02288,~NMF~0.02578$ 

#### PD9754(optimal GSA error \* 1.05)



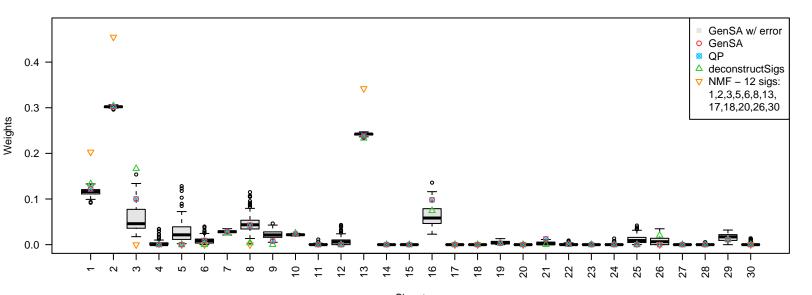
Signatures
GenSA+error(median) 0.02922, GenSA 0.02807, QP 0.02807, deconstructSigs 0.02946, NMF 0.03242

#### PD9755(optimal GSA error \* 1.05)



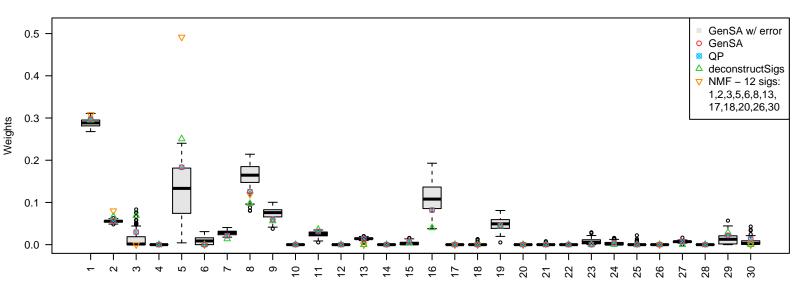
Signatures
GenSA+error(median) 0.02839, GenSA 0.02715, QP 0.02715, deconstructSigs 0.02825, NMF 0.03684

#### PD9756(optimal GSA error \* 1.05)



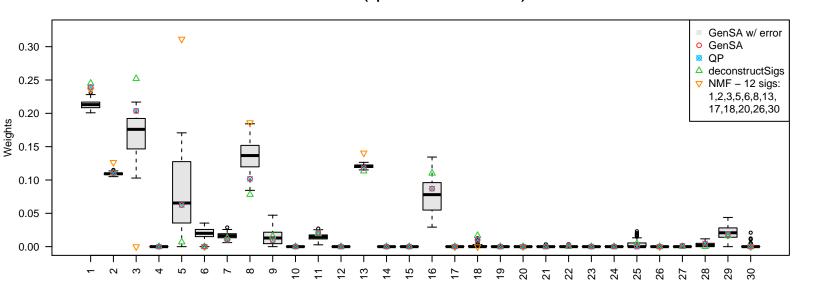
Signatures
GenSA+error(median) 0.01720, GenSA 0.01644, QP 0.01644, deconstructSigs 0.01701, NMF 0.09914

#### PD9759(optimal GSA error \* 1.05)



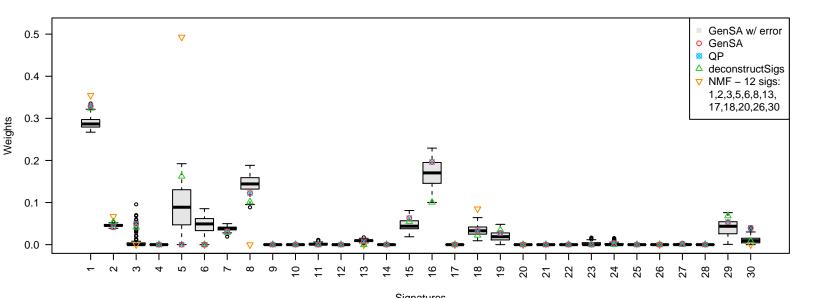
Signatures
GenSA+error(median) 0.02455, GenSA 0.02361, QP 0.02361, deconstructSigs 0.02448, NMF 0.03010

#### PD9760(optimal GSA error \* 1.05)



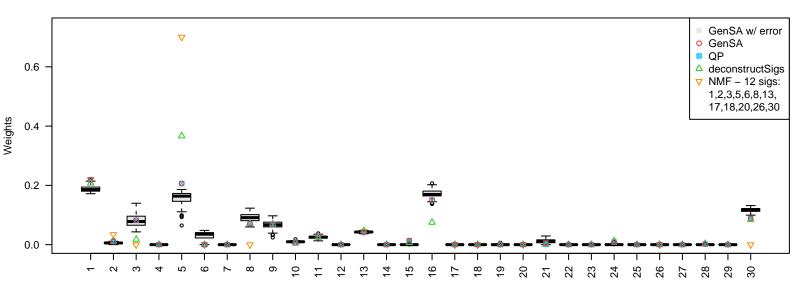
Signatures
GenSA+error(median) 0.01735, GenSA 0.01665, QP 0.01665, deconstructSigs 0.01684, NMF 0.02192

#### PD9761(optimal GSA error \* 1.05)



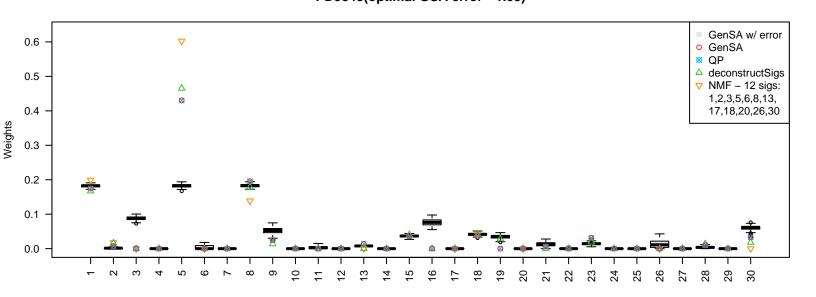
Signatures
GenSA+error(median) 0.02930, GenSA 0.02810, QP 0.02810, deconstructSigs 0.02889, NMF 0.03533

#### PD9842(optimal GSA error \* 1.05)



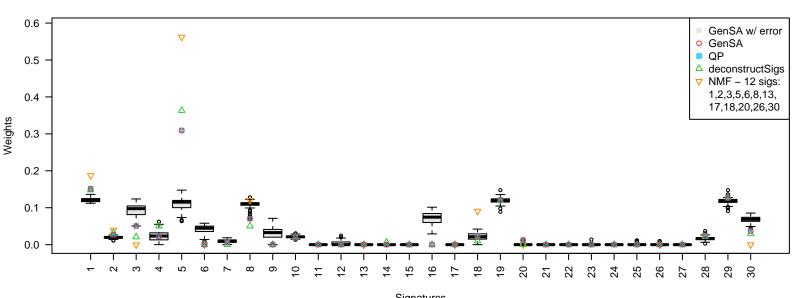
Signatures
GenSA+error(median) 0.02386, GenSA 0.02290, QP 0.02290, deconstructSigs 0.02320, NMF 0.02855

# PD9843(optimal GSA error \* 1.05)



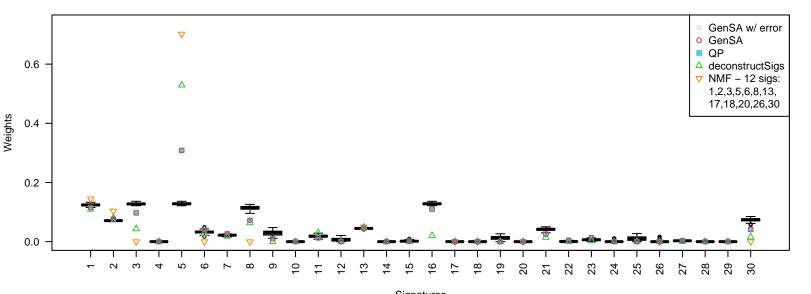
Signatures
GenSA+error(median) 0.02828, GenSA 0.02699, QP 0.02699, deconstructSigs 0.02775, NMF 0.03167

#### PD9844(optimal GSA error \* 1.05)



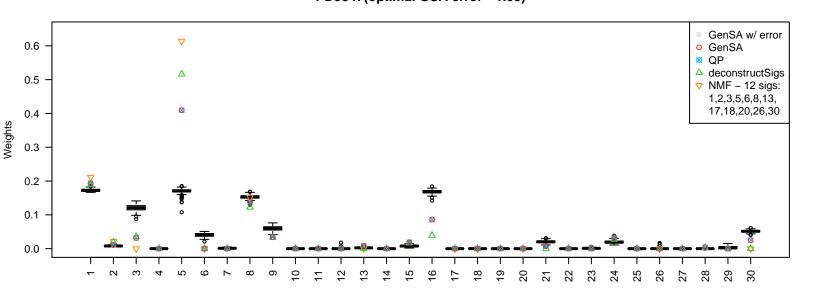
 $Signatures \\ GenSA+error(median)~0.03891,~GenSA~0.03720,~QP~0.03720,~deconstructSigs~0.03737,~NMF~0.04510$ 

#### PD9845(optimal GSA error \* 1.05)



Signatures
GenSA+error(median) 0.02276, GenSA 0.02175, QP 0.02175, deconstructSigs 0.02236, NMF 0.02726

# PD9847(optimal GSA error \* 1.05)



Signatures
GenSA+error(median) 0.02822, GenSA 0.02700, QP 0.02700, deconstructSigs 0.02736, NMF 0.02905