**Table.** This table contains all the hinges scanned (and merged) from alpha value 0 to 10 with step size of 0.1 in the provided structures of the SH2 domains

|  |  |  |
| --- | --- | --- |
| **Filename\_ChainID** | **HingeID** | **ResidueIDs** |
| Abl\_2KD\_SH2only\_4xey.pdb\_B | H1 | 165:173 |
| Abl\_2KD\_SH2only\_4xey.pdb\_B | H2 | 180:186 |
| Abl\_2KD\_SH2only\_4xey.pdb\_B | H3 | 189:195 |
| Abl\_32KD\_SH2only\_1opk.pdb\_A | H1 | 142:149 |
| Abl\_32KD\_SH2only\_1opk.pdb\_A | H2 | 166:186 |
| Abl\_32KD\_SH2only\_1opk.pdb\_A | H3 | 214:221 |
| Abl\_32KD\_SH2only\_1opk.pdb\_A | H4 | 225:230 |
| Abl\_32KD\_SH2only\_1opl.pdb\_A | H1 | 142:151 |
| Abl\_32KD\_SH2only\_1opl.pdb\_A | H2 | 166:184 |
| Abl\_32KD\_SH2only\_1opl.pdb\_A | H3 | 214:221 |
| Abl\_32KD\_SH2only\_1opl.pdb\_A | H4 | 225:230 |
| Abl\_32KD\_SH2only\_2fo0.pdb\_A | H1 | 166:174 |
| Abl\_32KD\_SH2only\_2fo0.pdb\_A | H2 | 180:186 |
| Abl\_32KD\_SH2only\_2fo0.pdb\_A | H3 | 189:196 |
| Abl\_32KD\_SH2only\_2fo0.pdb\_A | H4 | 213:221 |
| Abl\_32KD\_SH2only\_2fo0.pdb\_A | H5 | 225:230 |
| Abl\_32\_SH2only\_2abl.pdb\_A | H1 | 144:153 |
| Abl\_32\_SH2only\_2abl.pdb\_A | H2 | 166:173 |
| Abl\_32\_SH2only\_2abl.pdb\_A | H3 | 178:185 |
| Abl\_32\_SH2only\_2abl.pdb\_A | H4 | 189:196 |
| Abl\_32\_SH2only\_2abl.pdb\_A | H5 | 214:224 |
| Hck\_32KD\_SH2only\_1ad5.pdb\_A | H1 | 147:159 |
| Hck\_32KD\_SH2only\_1ad5.pdb\_A | H2 | 169:180 |
| Hck\_32KD\_SH2only\_1ad5.pdb\_A | H3 | 183:190 |
| Hck\_32KD\_SH2only\_1ad5.pdb\_A | H4 | 197:205 |
| Hck\_32KD\_SH2only\_1ad5.pdb\_A | H5 | 226:244 |
| Hck\_32KD\_SH2only\_1qcf.pdb\_A | H1 | 147:159 |
| Hck\_32KD\_SH2only\_1qcf.pdb\_A | H2 | 169:179 |
| Hck\_32KD\_SH2only\_1qcf.pdb\_A | H3 | 182:190 |
| Hck\_32KD\_SH2only\_1qcf.pdb\_A | H4 | 198:205 |
| Hck\_32KD\_SH2only\_1qcf.pdb\_A | H5 | 223:245 |
| Hck\_32KD\_SH2only\_2c0t.pdb\_A | H1 | 122:138 |
| Hck\_32KD\_SH2only\_2c0t.pdb\_A | H2 | 142:165 |
| Hck\_32KD\_SH2only\_2c0t.pdb\_A | H3 | 173:179 |
| Hck\_32KD\_SH2only\_2c0t.pdb\_A | H4 | 209:221 |
| Hck\_32KD\_SH2only\_3vrz.pdb\_A | H1 | 148:164 |
| Hck\_32KD\_SH2only\_3vrz.pdb\_A | H2 | 169:191 |
| Hck\_32KD\_SH2only\_3vrz.pdb\_A | H3 | 199:204 |
| Hck\_32KD\_SH2only\_3vrz.pdb\_A | H4 | 230:246 |
| Hck\_32KD\_SH2only\_3vs3.pdb\_A | H1 | 148:160 |
| Hck\_32KD\_SH2only\_3vs3.pdb\_A | H2 | 169:181 |
| Hck\_32KD\_SH2only\_3vs3.pdb\_A | H3 | 184:192 |
| Hck\_32KD\_SH2only\_3vs3.pdb\_A | H4 | 199:206 |
| Hck\_32KD\_SH2only\_3vs3.pdb\_A | H5 | 240:245 |
| Hck\_32KD\_SH2only\_4lud.pdb\_A | H1 | 148:164 |
| Hck\_32KD\_SH2only\_4lud.pdb\_A | H2 | 169:179 |
| Hck\_32KD\_SH2only\_4lud.pdb\_A | H3 | 183:192 |
| Hck\_32KD\_SH2only\_4lud.pdb\_A | H4 | 199:205 |
| Hck\_32KD\_SH2only\_4lud.pdb\_A | H5 | 227:247 |
| Hck\_32\_SH2only\_3nhn.pdb\_A | H1 | 168:180 |
| Hck\_32\_SH2only\_3nhn.pdb\_A | H2 | 184:190 |
| Hck\_32\_SH2only\_3nhn.pdb\_A | H3 | 226:246 |
| Lck\_32\_SH2only\_4d8k.pdb\_A | H1 | 147:158 |
| Lck\_32\_SH2only\_4d8k.pdb\_A | H2 | 163:169 |
| Lck\_32\_SH2only\_4d8k.pdb\_A | H3 | 177:184 |
| Lck\_32\_SH2only\_4d8k.pdb\_A | H4 | 205:224 |
| Lck\_SH2\_1bhh.pdb\_A | H1 | 147:169 |
| Lck\_SH2\_1bhh.pdb\_A | H2 | 212:224 |
| Lck\_SH2\_1ijr.pdb\_A | H1 | 25:36:00 |
| Lck\_SH2\_1ijr.pdb\_A | H2 | 41:47:00 |
| Lck\_SH2\_1ijr.pdb\_A | H3 | 55:62 |
| Lck\_SH2\_1ijr.pdb\_A | H4 | 80:102 |
| Lck\_SH2\_1lkk.pdb\_A | H1 | 125:142 |
| Lck\_SH2\_1lkk.pdb\_A | H2 | 149:159 |
| Lck\_SH2\_1lkk.pdb\_A | H3 | 162:168 |
| Lck\_SH2\_1lkk.pdb\_A | H4 | 178:184 |
| Lck\_SH2\_1lkk.pdb\_A | H5 | 205:224 |
| Lck\_SH2\_1lkl.pdb\_A | H1 | 124:142 |
| Lck\_SH2\_1lkl.pdb\_A | H2 | 148:168 |
| Lck\_SH2\_1lkl.pdb\_A | H3 | 202:213 |
| Src\_32KD\_SH2only\_2ptk.pdb\_A | H1 | 147:159 |
| Src\_32KD\_SH2only\_2ptk.pdb\_A | H2 | 169:180 |
| Src\_32KD\_SH2only\_2ptk.pdb\_A | H3 | 184:190 |
| Src\_32KD\_SH2only\_2ptk.pdb\_A | H4 | 199:204 |
| Src\_32KD\_SH2only\_2ptk.pdb\_A | H5 | 226:247 |
| Src\_32KD\_SH2only\_2src.pdb\_A | H1 | 146:159 |
| Src\_32KD\_SH2only\_2src.pdb\_A | H2 | 169:179 |
| Src\_32KD\_SH2only\_2src.pdb\_A | H3 | 184:190 |
| Src\_SH2\_1is0.pdb\_A | H1 | 146:163 |
| Src\_SH2\_1is0.pdb\_A | H2 | 168:179 |
| Src\_SH2\_1is0.pdb\_A | H3 | 184:190 |
| Src\_SH2\_1is0.pdb\_A | H4 | 198:204 |
| Src\_SH2\_1is0.pdb\_A | H5 | 227:247 |
| Src\_SH2\_1nzl.pdb\_A | H1 | 147:158 |
| Src\_SH2\_1nzl.pdb\_A | H2 | 172:181 |
| Src\_SH2\_1nzl.pdb\_A | H3 | 186:192 |
| Src\_SH2\_1nzl.pdb\_A | H4 | 228:247 |
| Src\_SH2\_1nzv.pdb\_A | H1 | 147:158 |
| Src\_SH2\_1nzv.pdb\_A | H2 | 172:179 |
| Src\_SH2\_1nzv.pdb\_A | H3 | 187:193 |
| Src\_SH2\_1nzv.pdb\_A | H4 | 228:249 |
| Src\_SH2\_1p13.pdb\_A | H1 | 159:176 |
| Src\_SH2\_1p13.pdb\_A | H2 | 181:190 |
| Src\_SH2\_1p13.pdb\_A | H3 | 196:203 |
| Src\_SH2\_1p13.pdb\_A | H4 | 211:218 |
| Src\_SH2\_1p13.pdb\_A | H5 | 239:259 |
| Src\_SH2\_1sha.pdb\_A | H1 | 5:20 |
| Src\_SH2\_1sha.pdb\_A | H2 | 25:35:00 |
| Src\_SH2\_1sha.pdb\_A | H3 | 40:48:00 |
| Src\_SH2\_1sha.pdb\_A | H4 | 55:62 |
| Src\_SH2\_1sha.pdb\_A | H5 | 83:102 |
| Src\_SH2\_1shb.pdb\_A | H1 | 2:18 |
| Src\_SH2\_1shb.pdb\_A | H2 | 25:34:00 |
| Src\_SH2\_1shb.pdb\_A | H3 | 41:47:00 |
| Src\_SH2\_1shb.pdb\_A | H4 | 55:62 |
| Src\_SH2\_1shb.pdb\_A | H5 | 86:104 |
| Src\_SH2\_1skj.pdb\_A | H1 | 3:13 |
| Src\_SH2\_1skj.pdb\_A | H2 | 27:35:00 |
| Src\_SH2\_1skj.pdb\_A | H3 | 40:47:00 |
| Src\_SH2\_1skj.pdb\_A | H4 | 55:62 |
| Src\_SH2\_1skj.pdb\_A | H5 | 82:91 |
| Src\_SH2\_1spr.pdb\_A | H1 | 3:16 |
| Src\_SH2\_1spr.pdb\_A | H2 | 25:35:00 |
| Src\_SH2\_1spr.pdb\_A | H3 | 39:47:00 |
| Src\_SH2\_1spr.pdb\_A | H4 | 55:62 |
| Src\_SH2\_1spr.pdb\_A | H5 | 80:102 |
| Src\_SH2\_1sps.pdb\_A | H1 | 2:20 |
| Src\_SH2\_1sps.pdb\_A | H2 | 25:36:00 |
| Src\_SH2\_1sps.pdb\_A | H3 | 41:47:00 |
| Src\_SH2\_1sps.pdb\_A | H4 | 55:63 |
| Src\_SH2\_1sps.pdb\_A | H5 | 83:102 |