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| **Table S3. Detail information of identified 8 motifs in HbSOD proteins** |  |  |
| **Motif name** | **Motif sequence** | **Width** | **E-value** |
| Motif1 | DGPTTVEANVSGLSPGKHGFHVHEFGDTTNGCASTGKHFNPASKEHGAPE | 50 | 9.2E-50 |
| Motif2 | QTYSLPDPPYDLGALEPYISGETLZLHWQKHHRAYVTNLNKQL | 43 | 2.7E-40 |
| Motif3 | IGRAVVVHETEDKLGGGGHE | 20 | 2.4E-14 |
| Motif4 | FWAPVRPGGGELPHGSLGWAIDKDFGSLEKFIZKFNAEGAALFGSGWVWL | 50 | 1.8E-30 |
| Motif5 | RHAGDLGNQNVRPDG | 15 | 1E-12 |
| Motif6 | ENYKKICTCDGTIIWESSNKDFVTCKV | 27 | 1.3E-10 |
| Motif7 | SPVKTLTEALEQTGRKARLIGQGVPEDFLVSAAVAEFKGPDIFGVVRFAQ | 50 | 2.8E-10 |
| Motif8 | LSKVTGNAGGRLACGIIGLQ | 20 | 1.90E-07 |