d mutations at different number of base mutation sites (Synonymous and Nonsynonymous Mutations) Ala -Leu Val Amino acid Cys Thr Ser Gly Met Trp Phe Pro lle - 15 - 10 Glu Asp His Arg Lys Gln Asn Tyr - 5 - 0 1_sense 2_sense 3_nosense 3_sense 1_nosense 2_nosense Number of mutation sites and Mutation Type