

MRGMLPLFEPKGRVLLVDGHHLAYRTFHALKGLTTSRGEPVQAVYGFSAKSLKALKEDGDAVIVVFDKAPSFRHEAYGG
YKAGRAPTPEDFPRQLALIKELVDLLGLARLEVPGYEADDVLASLAKKAEKEGYEVRLTADKDLYQLLSDRIHVLHPEGYLIT
PAWLWEKYGLRPDQWADYRALTGDESDNLPGVKGIGETARKLLEEWGSLEALLKNLDRPKPAIREKILAHMDDLKLSW
DLAKVRTDLPLEVDFAKRREPDRERLRAFLEFEGSLLHEFGLLESPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLAL
AAARGGRVHRAPEPYKALRDLKEARGLLAKDLSVLALREGLGLPPGDDPMMLLAYLLDPSNTTPEGVARRYGGEWTEEAG
ERAALSERLFANLWGRLEGEERLLWLYREVERPLSAVLAHMEATGVRLDVAYLRALSLEVAEEIARLEAEVFRLAGHPFNL
NSRDQLERVLFDLGLPAIGKTEKTGKRSTSAVLEALREAHPIVEKILQYRELTCLKSTYIDPLDLPDIHPRTGRLHTRFNQTA
TATGRLSSSDPNLQNIPTVPLGQRIRRAFIAEEGWLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGV
PREAVDPLMRRAAKTINFGVLYGMSAHRLSQELAIPIYEEAQAFIERYFQSFPKVRWIEKTLEEGRRRGYVETLFGRRRYV
PDLEARVKSUREAAERMAFNMPVQGTAAADLMKLAMVKLFPRLEEMGARMMLLQVHDELVEAPKERAEEAVARLAKEV
MEGVYPLAVPLVVEVGIGEDWLSAKE

Amino acid sequence of the C66 Taq polymerase mutant. The full-length amino acid sequence of the Taq DNA polymerase C66 mutant is shown. The gene encodes an 832-amino-acid protein. The C66 mutant carries a single amino acid substitution (E818V), which is highlighted in the sequence.

MGLLHEFGLLESPKALEEAPWPPPEGAFVGFVLSRKEPMWADLLALAAARGGRVHRAPEPYKALRDLKEARGLLAKDLS
VLALREGLGLPPGDDPMMLLAYLLDPSNTTPEGVARRYGGEWTEEAGERAALSERLFANLWGRLEGEERLLWLYREVERPL
SAVLAHMEATGVRLDVAYLRALSLEVAEEIARLEAEVFRLAGHPFNLNSRDQLERVLFDLGLPAIGKTEKTGKRSTSAVL
EALREAHPIVEKILQYRELTCLKSTYIDPLDLPDIHPRTGRLHTRFNQTATATGRLSSSDPNLQNIPTVPLGQRIRRAFIAEEG
WLLVALDYSQIELRVLAHLSGDENLIRVFQEGRDIHTETASWMFGVPREAVDPLMRRAAKTINFGVLYGMSAHRLSQEL
AIPYEEAQAFIERYFQSFPKVRWIEKTLEEGRRRGYVETLFGRRRYVPDLEARVRSUREAAERMAFNMPVQGTAAADLM
KLAMVKLFPRLEEMGARMMLLQVHDELVEAPKERAEEAVARLAKEVMEGVYPLAVPLEVEVGIGEDWLSAKE

Amino Acid Sequence of the H101 Taq Polymerase Mutant. The H101 mutant is a truncated variant of Taq DNA polymerase, lacking the N-terminal 278 amino acids present in the full-length enzyme. The sequence shown corresponds to the complete amino acid sequence of the H101 mutant, a 554-residue protein derived from the KlenTaq1 version of Taq polymerase.

The H101 mutant contains a single point mutation, K738R (lysine to arginine), where the residue position is numbered according to the full-length Taq DNA polymerase. The mutated residue is highlighted in the sequence.