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p53	wt aa	MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPPSWPLSSSVPSQ	100
uva	mutations sequence	MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPPSWPLSSSVPSQ	100
uvb	mutations sequence	MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPPSWPLSSSVPSQ	100

p53	wt aa	KTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTEVVRRCPHHERCSDSDGLAPPQHLIRVEGN	200
uva	mutations sequence	KTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTEVVRRCPHHERCSDSDGLAPPQHLIRVEGN	200
uvb	mutations sequence	KTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTEVVRRCPHHERCSDSDGLAPPQHLIRMEGN	200

p53	wt aa	LRVEYLDDRNTFRHSVVVPYEPPEVGSDCTTIHYNYMCNSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGRRDRTEENLRKKGEPHHELP	300
uva	mutations sequence	LRGEYLDDRNTFRHSVVVPDEPPEVGSDCTTIHYNYMWNSSCMGGMNRRPILTIITREDSSGNLLGRNSFEVRVCACPGRRDRTEENLRKKGEPHHELP	300
uvb	mutations sequence	LRVEYLDDRNTFRHSVVVPYEPPEVDSDCTTIYNYNYMCNSSCMGGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGRRDRTEENLRKKREPYHELP	300

p53	wt aa	PGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDSD	393
uva	mutations sequence	PGSTKRALPNNTSSSPQPKKKPLDGEYFTLPPIRGRERFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDSD	393
uvb	mutations sequence	PGSTKRALPNNTSFFPQLKKKPLDGEYFTLQIRGRERFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDSD	393

X non-conserved
X ≥ 50% conserved