DAVE1 decision plot for MA1083I in gene BRCA1 (P38398, ENST00000357654), GRCh38 17:43092282C>A

SHAP values do not correlate with feature values, but instead capture feature contributions based on the interactions among all features uniquely for this prediction

Feature contribution to probability of being pathogenic, in descending order

- Baseline probability for being pathogenic
- Isoelectric point is unaffected
- Folding energy ΔG increased by 0.971536 kJ/mol
- RNA binding affinity is unaffected
- Hydrophobic moment is unaffected
- Net electric charge at pH 7 is unaffected
- DNA binding site* is unaffected
- Hydrophobicity increased by 0.001396 GRAVY
- DNA binding affinity is unaffected
- RNA binding site* increased by 2 residues
- Protein binding site* increased by 8 residues
- Ligand binding № pockets* is unaffected
- Ligand binding top pocket** is unaffected

Cumulative probability heuristic for SHAP values

* = if any, one or more   ** = if any

Final probability for being pathogenic is 0.002, variant is estimated to be benign