For Subgroup 1 : ['ENAC10', 'Kmer1', 'DAC7', 'ENAC5', 'CKSNAP9']

Models	Accuracy		Sensitivity		Specificity		MCC	
XGBoost	Train	0.845069	Train	0.85359	Train	0.836547	Train	0.69024
	Test	0.728330	Test	0.733003	Test	0.723806	Test	0.45709
AdaBoost	Train	0.756094	Train	0.757843	Train	0.754298	Train	0.512238
	Test	0.703682	Test	0.7079571	Test	0.699160	Test	0.407521
Ran. Forest	Train	1.0	Train	1.0	Train	1.0	Train	1.0
	Test	0.692313	Test	0.697405	Test	0.687639	Test	0.385320
Log. Regression	Train	0.798009	Train	0.799270	Train	0.796722	Train	0.596018
	Test	0.762187	Test	0.759793	Test	0.764313	Test	0.524334
SVC	Train	0.844190	Train	0.857226	Train	0.831095	Train	0.68860
	Test	0.750272	Test	0.758594	Test	0.74239	Test	0.501126

For Subgroup 2: ['ENAC5', 'DAC7', 'CKSNAP9', 'CKSNAP5', 'binary']

Models	Accuracy		Sensitivity		Specificity		MCC	
XGBoost	Train	0.866941	Train	0.873760	Train	0.860092	Train	0.73392
	Test	0.771122	Test	0.771245	Test	0.771215	Test	0.542304
AdaBoost	Train	0.787175	Train	0.781007	Train	0.793336	Train	0.574402
	Test	0.744587	Test	0.73113	Test	0.75776	Test	0.48910
Ran. Forest	Train	1.0	Train	1.0	Train	1.0	Train	1.0
	Test	0.718581	Test	0.726920	Test	0.709986	Test	0.43699
Log. Regression	Train	0.809994	Train	0.8075766	Train	0.812434	Train	0.620018
	Test	0.77221	Test	0.769553	Test	0.775371	Test	0.544844
SVC	Train	0.91176	Train	0.920644	Train	0.902880	Train	0.823695
	Test	0.766255	Test	0.767768	Test	0.7647904	Test	0.532638

For Subgroup 3: ['EIIP', 'Kmer1', 'CKSNAP1', 'Kmer5', 'CKSNAP9']

Models	Accuracy		Sensitivity		Specificity		MCC	
XGBoost	Train	0.854685	Train	0.862955	Train	0.8464279	Train	0.7095011
	Test	0.7667873	Test	0.762372	Test	0.771319	Test	0.533851
AdaBoost	Train	0.786294	Train	0.786548	Train	0.786013	Train	0.572587
	Test	0.742141	Test	0.74419	Test	0.740584	Test	0.484643

Ran. Forest	Train	1.0	Train	1.0	Train	1.0	Train	1.0
	Test	0.69745	Test	0.699872	Test	0.695483	Test	0.395156
Log. Regression	Train	0.7344932	Train	0.7527609	Train	0.716083	Train	0.469228
	Test	0.709098	Test	0.728694	Test	0.690606	Test	0.419527
SVC	Train	0.76963	Train	0.788454	Train	0.750774	Train	0.539639
	Test	0.721829	Test	0.746419	Test	0.697456	Test	0.444271

For Subgroup 4: ['CKSNAP1', 'ENAC10', 'CKSNAP9', 'CKSNAP5', 'ENAC10']

Models	Accuracy		Sensitivity		Specificity		MCC	
XGBoost	Train	0.823537	Train	0.82503	Train	0.822037	Train	0.647074
	Test	0.702327	Test	0.699473	Test	0.705628	Test	0.405261
AdaBoost	Train	0.736389	Train	0.73822	Train	0.73455	Train	0.472789
	Test	0.677410	Test	0.68316	Test	0.671508	Test	0.354770
Ran. Forest	Train	1.0	Train	1.0	Train	1.0	Train	1.0
	Test	0.6860747	Test	0.693479	Test	0.678755	Test	0.3725144
Log. Regression	Train	0.7829085	Train	0.785991	Train	0.779772	Train	0.565806
	Test	0.752167	Test	0.755532	Test	0.748612	Test	0.504621
SVC	Train	0.797602	Train	0.802009	Train	0.79319	Train	0.595235
	Test	0.730495	Test	0.735798	Test	0.725402	Test	0.461292

For Subgroup 5: ['NCP', 'Kmer5', 'CKSNAP9', 'ENAC10', 'Kmer3']

Models	Accuracy		Sensitivity		Specificity		MCC	
XGBoost	Train	0.869786	Train	0.879160	Train	0.860360	Train	0.739720
	Test	0.776266	Test	0.773545	Test	0.778804	Test	0.552451
AdaBoost	Train	0.7910351	Train	0.793142	Train	0.788876	Train	0.582049
	Test	0.738348	Test	0.740587	Test	0.736927	Test	0.477255
Ran. Forest	Train	1.0	Train	1.0	Train	1.0	Train	1.0
	Test	0.702866	Test	0.703994	Test	0.702384	Test	0.406705
Log. Regression	Train	0.80660	Train	0.800792	Train	0.81242	Train	0.613254
	Test	0.77193	Test	0.77108	Test	0.77298	Test	0.544357
SVC	Train	0.85400	Train	0.857512	Train	0.850471	Train	0.70805
	Test	0.760834	Test	0.761010	Test	0.760596	Test	0.521929

Independent Test:

Models	Accuracy	Sensitivity	Specificity	MCC
XGBoost	0.79166	0.803030	0.780303	0.58348
AdaBoost	0.753787	0.734848	0.7727	0.50794
Ran. Forest	0.696969	0.7045454	0.68939	0.39398
Log. Regression	0.79924	0.772727	0.82575	0.59932
SVC	0.80303	0.8030	0.80303	0.60606