Entire Construct

Region #1

| | Codon | changes | AA ch | anges | | Codon | changes | AA ch | anges | |
|--------------------------|-------------------------------|----------------|--------------------|----------------|-------------------------|----------------|----------------|----------------|---------------|--|
| | All | SNV-reachable | All | SNV-reachable | | All | SNV-reachable | All | SNV-reachable | |
| ····· All possible ····· | 41265 (100.00%) | 4557 (100.00%) | 13100 (100.00%) | 4065 (100.00%) | ···· All possible ····· | 9198 (100.00%) | 1013 (100.00%) | 2920 (100.00%) | 899 (100.00%) | |
| Detected | 28130 (68.17%) | 4557 (100.00%) | 12875 (98.28%) | 4065 (100.00%) | Detected | 6705 (72.90%) | 1013 (100.00%) | 2907 (99.55%) | 899 (100.00%) | |
| Passed filters | 1265 <mark>7 (30.67%</mark>) | 2986 (65.53%) | ·· 8342 (63.68%) · | 3404 (83.74%) | Passed filters | 3682 (40.03%) | 727 (71.77%) | 2303 (78.87%) | 829 (92.21%) | |
| sd < 0.3 | 12221-(29:62%) | 2655 (58.26%) | · 8149-(62.21%) | 3247-(79:88%) | sd < 0.3 | 3591-(39.04%) | 655 (64.66%) | 2278-(78:01%) | 809 (89,99%) | |

Region #2 Region #3

| | Codon changes | | AA changes | | | Codon ch | | AA ch | A changes | |
|--------------------|----------------|--------------------|----------------|---------------|---------------------|-----------------|----------------|----------------|----------------|--|
| | All | SNV-reachable | All | SNV-reachable | | All | SNV-reachable | All | SNV-reachable | |
| All possible | 9261 (100.00%) | 1030 (100.00%) | 2940 (100.00%) | 924 (100.00%) | All possible | 11340 (100.00%) | 1244 (100.00%) | 3600 (100.00%) | 1105 (100.00%) | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Detected | 6292 (67.94%) | 1030 (100.00%) | 2904 (98.78%) | 924 (100.00%) | Detected | 7568 (66.74%) | 1244 (100.00%) | 3515 (97.64%) | 1105 (100.00%) | |
| | | | | | | | | | | |
| Passed filters | 2960 (31.96%) | 618 (60.00%) | 1998 (67.96%) | 776 (83.98%) | Passed filters | 3063 (27.01%) | 811 (65.19%) | 2083 (57.86%) | 893 (80.81%) | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ····sd·< 0.3 ····· | 2831 (30.57%) | ·· 532 (51.65%)··· | 1935 (65.82%) | 735 (79.55%) | ···· sd < 0.3 ····· | 2948 (26.00%) | 725 (58:28%) | 2024 (56.22%) | 843 (76.29%) | |

Region #4

| | Codon | changes | AA ch | anges |
|-----------------------------|---------------|----------------|--------------------------------|-----------------|
| | All | SNV-reachable | All | SNV-reachable |
| ····· All possible ···· 114 | 166 (100.00%) | 1270 (100.00%) | 3640 (100.00%) | .1137 (100.00%) |
| Detected 75 | 565 (65.98%) | 1270 (100.00%) | 3549 (97.50%) | 1137 (100.00%) |
| Passed filters 29 | 952 (25.75%) | 830 (65.35%) | · 19 <mark>58 (53.79</mark> %) | 906 (79.68%) |
| | | | | |
| sd < 0.328 | 351 (24.86%) | 743 (58:50%) | 1912 (52.53%) | 860 (75.64%) |