VCF with Allele Frequencies

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| --- | --- | --- | --- | --- | --- | --- | --- |
| chr | pos | ref | alt | ancestral | AF | DAF | Scenario |
| chr22 | 16050075 | A | G | . | 0.07 | . | ancestral is missing |
| chr22 | 16363303 | G | T | G | 0.1 | 0.1 | ancestral == reference |
| chr22 | 18236956 | G | A | A | 0.05 | 0.95 | ancestral == alternate |
| chr22 | 18509086 | A | T | C | 0.12 | 1 | ancestral != reference & ancestral != alternate |
| chr22 | 20800700 | C | A, T | C | 0.01, 0.03 | 0.04 | N alternate alleles > 1 & ancestral == reference |
| chr22 | 28264974 | G | A, T | T | 0.08, 0.09 | 0.91 | N alternate alleles > 1 & ancestral == any(alternate) |
| chr22 | 35368282 | G | A, C | T | 0.01,0.01 | 1 | N alternate alleles > 1 & ancestral != any(alternate) |

VCF with Genotypes

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| chr | pos | ref | alt | ancestral | Sample1 | Sample2 | Sample3 | Sample4 | AF | DAF | Scenario |
| chr22 | 16050075 | A | G | . | 0/0 | 0/0 | 0/0 | 0/1 | 0.125 | . | ancestral is missing |
| chr22 | 16363303 | G | T | G | 1/1 | 0/0 | 0/0 | 0/0 | 0.25 | 0.25 | ancestral == reference |
| chr22 | 18236956 | G | A | A | 0/1 | 0/1 | 0/0 | ./. | 0.33 | 0.67 | ancestral == alternate |
| chr22 | 18509086 | A | T | C | 0|0 | 0|1 | 1|1 | 0|1 | 0.5 | 1 | ancestral != reference & ancestral != alternate |
| chr22 | 20800700 | C | A, T | C | ./. | 0/0 | 0/0 | 1/2 | 0.167, 0.167 | 0.33 | N alternate alleles > 1 & ancestral == reference |
| chr22 | 28264974 | G | A, T | T | 0/2 | 2/0 | 1/2 | 0/0 | 0.125,0.375 | 0.625 | N alternate alleles > 1 & ancestral == any(alternate) |
| chr22 | 35368282 | G | A, C | T | 0/0 | 0/1 | 0/2 | 0/0 | 0.125,0.125 | 1 | N alternate alleles > 1 & ancestral != any(alternate) |