

*Annotation at DNA level*

*- Origin of DNA variation*

VariO:0128 variation affecting DNA

VariO:0129 DNA variation type

VariO:0127 DNA variation origin

VariO:0130 DNA variation of genetic origin

*- DNA variation classification*

VariO:0128 variation affecting DNA

VariO:0129 DNA variation type

VariO:0322 DNA variation classification

VariO:0135 DNA chain variation

VariO:0136 DNA substitution

VariO:0313 transition

VariO:0315 purine transition

*Annotation at RNA level*

*- Origin of RNA variation*

VariO:0297 variation affecting RNA

VariO:0306 RNA variation type

VariO:0324 RNA variation origin

VariO:0307 RNA variation of genetic origin

*- RNA variation classification*

VariO:0297 variation affecting RNA

VariO:0306 RNA variation type

VariO:0328 RNA variation classification

VariO:0326 RNA insertion

VariO:0327 out-of-frame insertion

*- Effect on RNA structure*

VariO:0297 variation affecting RNA

VariO:0338 variation affecting RNA structure

VariO:0349 affected RNA level

VariO:0351 protein coding RNA sequence

VariO:0352 coding RNA sequence

*- Effect on RNA splicing*

VariO:0297 variation affecting RNA

VariO:0338 variation affecting RNA structure

VariO:0354 effect on RNA maturation

VariO:0362 effect on RNA splicing

VariO:0365 variation affecting cis splicing

VariO:0367 variation at five prime cis splice site

VariO:0368 variation at canonical five prime splice site

*Annotation at protein level*

*- Origin of protein variation*

VariO:0002 variation affecting protein

VariO:0012 protein variation type

VariO:0324 protein variation origin

VariO:0013 protein variation of genetic origin

*- Protein variation classification*

VariO:0002 variation affecting protein

VariO:0012 protein variation type

VariO:0325 protein variation classification

VariO:0018 amino acid insertion

VariO:0019 amphigoric amino acid insertion

*- Effect on protein property*

VariO:0002 variation affecting protein

VariO:0032 variation affecting protein property

VariO:0047 association of protein variation to pathogenicity; VariO:0294 disease causing

VariO:0052 effect on protein abundance; VariO:0292 missing