Gene Section
Short Communication

RECQL5 (RecQ protein-like 5)
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Identity
HGNC (Hugo): RECQL5
Location: 17q25.2-25.3

DNA/RNA

Transcription
Three different transcripts: 3715 bases (RecQ5a), 3703 bases (RecQ5b), 1749 bases (RecQ5g).

Protein

Description
410 amino acids (RecQ5a), 991 amino acids (RecQ5b), 435 amino acids (RecQ5g). The predicted protein structures of all three polypeptides share seven motifs conserved for DNA helicases. RecQ5b contains a large C-terminal region that includes a domain homologous to the non-helicase domain of the E. coli RecQ DNA helicase.

Localisation
RecQ5a and RecQ5g are localized in the cytoplasm, whereas RecQ5b is localized in the nucleus.

Function
Unknown.

Homology
Homologous to RecQ helicases, a subfamily of DExH box-containing DNA and RNA helicases. In particular, similarities with the four known human members in the RecQ subfamily, human RecQL, human RecQL4, human BLM, the product of the Bloom syndrome gene and human WRN, the product of the Werner syndrome gene.

Mutations

Note
Not described yet, and correlation with genetic disorder, if any, is unknown.

References

This article should be referenced as such: