

Fusion PTPRK-RSPO3 and Interaction TEK-PTPRK (Complex 4nn7):

Interaction complex 4nn7 chain C, from gene "PTPRK", has been found in the leading part of the PTPRK-RSPO3 fusion product

Interaction 4nn7

TEK: 1-640 → TEK: 641-718 → TEK: 719-1124

4nn7 Chain B → 4nn7 Chain C → PTPRK: 504-576 → PTPRK: 577-1439

Fusion Effect

TEK: 1-640 → TEK: 641-718 → TEK: 719-1124

4nn7 Chain B → 4nn7 Chain C → PTPRK: 504-576 → PTPRK: 577-1439

Complex: 4nn7
TEK

- Chain: B
- Length: 1 - 1124
- Included in Interaction: 641 - 718

PTPRK

- Chain: C
- Length: 1 - 1439
- Included in Interaction: 504 - 576

Pfam

- **MAM: 36-193** <- Pfam domain split by fusion
- **I-set: 197-288** <- Pfam domain included in fusion product
- **fn3: 292-376** <- Pfam domain included in fusion product
- **fn3: 493-583** <- Pfam domain included in fusion product
- **Y_phosphatase: 910-1140** <- Pfam domain included in fusion product
- **Y_phosphatase: 1200-1434** <- Pfam domain included in fusion product

COSMIC
Catalogue of somatic mutations in cancer

Mutation: COSF1312

- PTPRK genomic breakpoint: 416
- PTPRK AA breakpoint: 138
- RSPO3 genomic breakpoint: 687
- RSPO3 AA breakpoint: 229

Other interactions affected by fusion PTPRK-RSPO3

None

Reaction:

- Biological process not assigned.

Author Description:

- Cytokine receptor complex - Crystal form 2

Citation:

- <http://europepmc.org/abstract/MED/24632570>

