

**Experiment title:**

Structure of repeat 19-21 from human gamma filamin.

**Experiment****number:**

MX-394

<b>Beamline:</b>	<b>Date of experiment:</b> from:050307 to:050308	<b>Date of report:</b> 0507025
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**Report:****Background:**

Filamins are large actin crosslinking molecules essential for cell motility and developmental processes. Human filamin has an N-terminal actin binding domain followed by 24 repeating Ig domains. Human gamma filamin contains an insert (not found in the other isoforms) of about 80 amino acids in repeat 20 that interacts with myotilin (thereby linking gamma-filamin to alpha-actinin) and is sufficient to target gamma filamin to the Z-disc of the sarcomere. We are interested in the structural basis of interaction of this isoform specific repeat.

**Result:**

This was the first test of many crystals of repeat 19-21 from human gamma-filamin. All crystals diffracted at best up to 5 Å. No full diffraction set was collected.