



**Experiment title:** FRANKFURT BAG:  
**ATOMIC MECHANISMS OF MEMBRANE  
PROTEINS**

**Experiment  
number:**  
MX-336

<b>Beamline:</b> ID14-EH1	<b>Date of experiment:</b> From: 05-MAY-2005 to: 06-MAY-2005	<b>Date of report:</b> 21-FEB-2006
<b>Shifts:</b> 3	<b>Local contact(s):</b> Tadeusz MUZIOL	<i>Received at ESRF:</i>

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**Report:**

**Variant Photosynthetic Reaction Center from *Rhodopseudomonas viridis*  
(H. Juhnke\*, M.G. Madej\*, C.R.D. Lancaster)**

The beam time was devoted to recording several data sets of a variant photosynthetic reaction centers from *Rhodopseudomonas viridis*. The best data sets are summarized in Table 1. Refinement is currently underway.

**Table 1. Best three diffraction data sets collected at ESRF ID14-EH1 on crystals of variant *Rp. viridis* RCs (P<sub>4</sub><sub>3</sub><sub>2</sub><sub>1</sub><sub>2</sub>, a = b = 224.3 Å, c = 113.6 Å)**

Data set	resol. range [Å]	redundancy	unique reflections	complete [%]	R <sub>sym</sub> [%]
D1	50.0-2.33	3.9	94,838	76.9	7.1
	2.38-2.33	3.7	6,695	82.7	35.6
D3	50.0-2.40	5.7	109,856	97.2	8.1
	2.46-2.40	5.8	7,239	97.3	36.9
I1	50.0-2.20	3.5	141,480	97.0	6.6
	2.25-2.20	3.5	9,296	97.1	28.4