Data collection	
Wavelength, Å	1.0
Space group	$P4_1\ 2_1\ 2$
Cell parameters	a = b = 91.9 Å
	c = 65.59 Å
	$\alpha = \beta = \gamma = 90°$
Resolution, Å	60-2.4 (2.46-2.4)
No. unique reflections	10,733
Redundancy	6.2 (3.9)
Completeness, %	98.3 (97.1)
Mean I/σ(I)	15.6 (3.5)
R_{sym} %	9.5 (52.4)
Refinement	
R_{work}/R_{free}	0.193/0.258
Mean B-value, Å^2	23.27
Rmsd bond-length, Å	0.016
Rmsd bond-angle, °	1.49

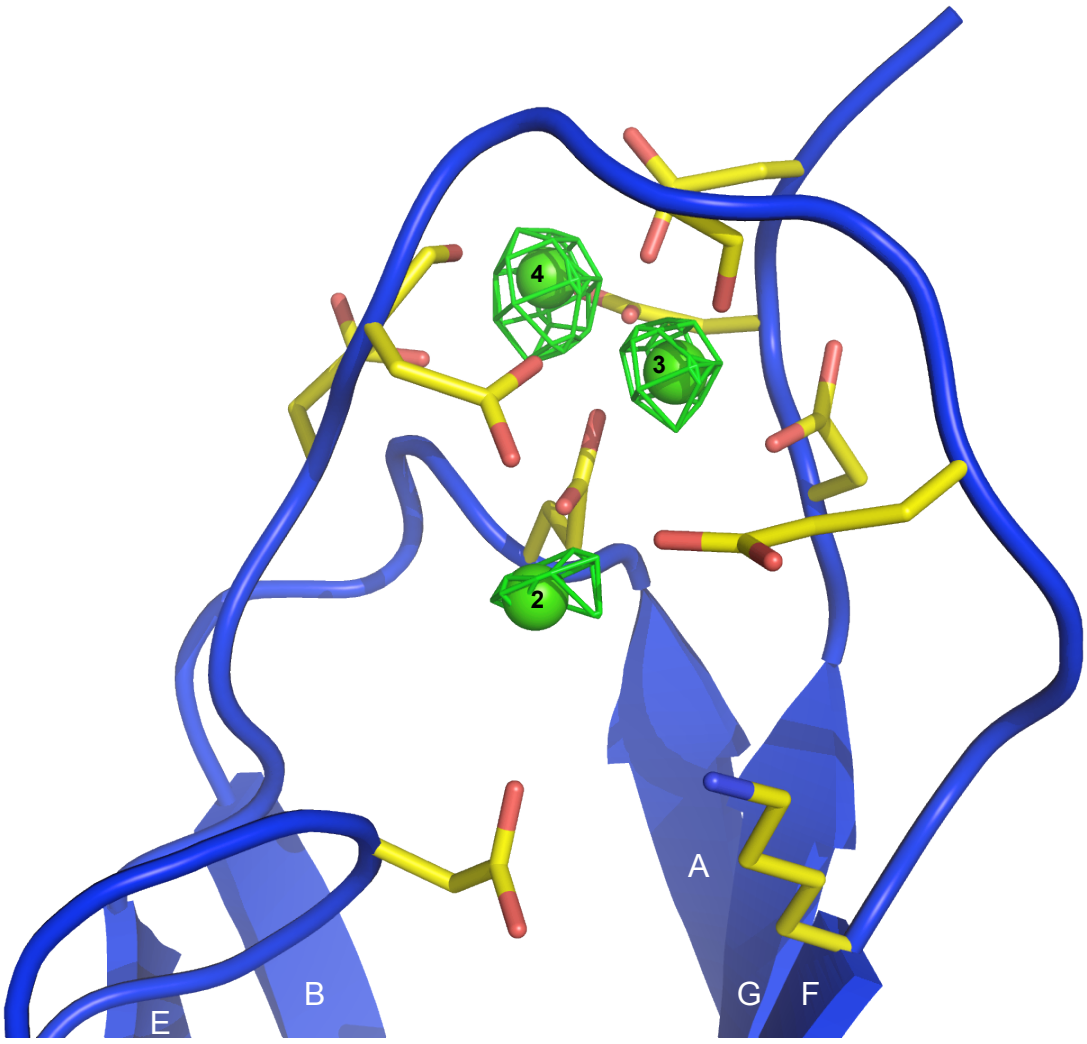
The values in parentheses refer to the highest resolution shell.

R_{sym} $= \sum_i | I_i - \langle I \rangle | / \sum_i | I_i |$. Where I_i is the mean of the i reflexions and $\langle I \rangle$ is the average intensity of all i_{st} reflexions.

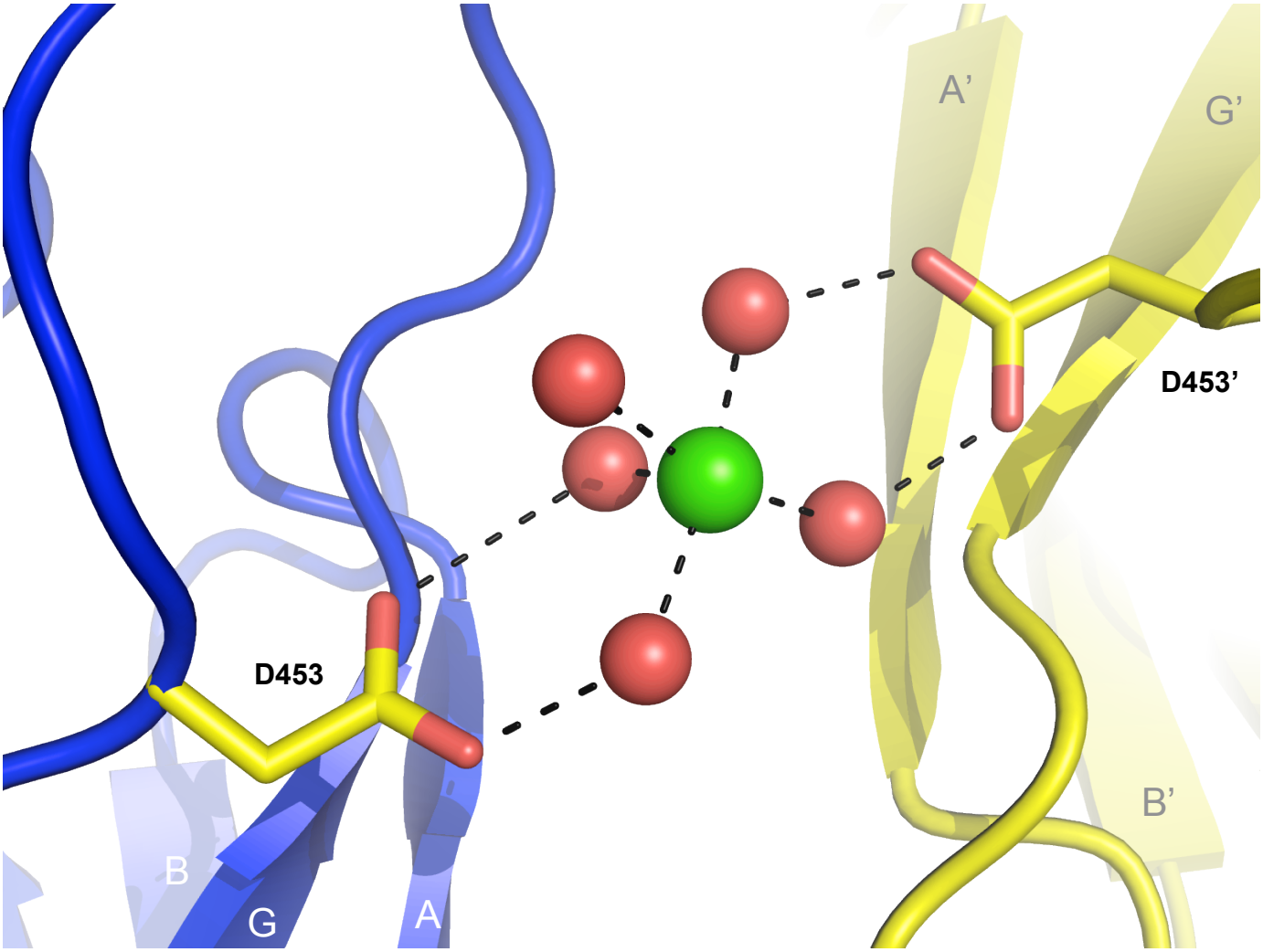
R_{work} $= \sum || F_o | - | F_c || / \sum | F_o |$.

5% of reflections have been used for R_{free} calculations.

Stable1. **Statistics for crystallographic data collection and refinement.**



Sfig1. **Fo-Fc electron density contoured at 4.5σ of E454K-CBD1 with omitted Ca^{2+} ions.**



Sfig2. **Artifactual Ca^{2+} (green sphere) located at the crystal interface between two molecules of E454K-CBD1 (blue and yellow).** The Ca^{2+} ion is coordinated by 5 water molecules (red spheres), 4 of which are coordinated symmetrically by D453 on adjacent subunits (displayed as sticks colored by Cα).