**Supplementary Table S1:** Data collection and refinement statistics

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|  | K-Ras4BA146T |
| **Data collection** |  |
| Source |  APS 19-1D |
| Wavelength (Å) |  1.00 |
| Space group | P3 |
| Unit cell |  |
|  *a*, *b*, *c* (Å) | 78.02, 78.02, 55.86 |
|  *α,β,γ* (°)  | 90.00, 90.00, 120.00 |
| Resolution (Å) | 50.00 - 1.40 |
| Unique reflections |  74,694 |
| *R*merge\* | 0.05 (0.67) |
| *I/δI* | 25.09 (1.71) |
| Completeness (%) | 99.80 (99.90) |
| Redundancy | 5.60 (5.20) |
| Wilson B-factor (Å2) | 17.3 |
| **Refinement** |  |
| Resolution (Å) | 28.91-1.40 (1.42-1.40) |
| Reflections used | 74,670 |
| Relections for R-free | 3,663 |
| *R*work / *R*free | 11/14 |
| Non-Hydrogen Atoms |  |
|  Protein | 2937 |
|  GDP | 56 |
|  Water | 348 |
| RMS deviations |  |
|  Bond lengths (Å)  | 0.014 |
|  Bond angles (º) | 1.381 |
| Average B-factor (Å2) Protein  GDP Water | 22.318.041.8  |
| Ramachandran plot % |  |
| Favored/allowed/disallowed | 98.2/1.8/0 |

APS, Advanced Photon Source.

\*Numbers in parentheses correspond to the last resolution shell.

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