**Supplementary Information**

Supplementary Table 1: Chemicals and Antibodies

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| **Reagent** |  | **Source** |
| PDE8A – C-Raf Disruptor Peptide  *Stearic Acid [CH3(CH2)16COOH] conjugated to C terminus* | RRLSGNEYVLST | GenScript |
| Scrambled Peptide  *Stearic Acid [CH3(CH2)16COOH] conjugated to C terminus* | SYTVRLLGERNS | GenScript |
| Anti-phospho-ERK rabbit primary antibody | 1:1000 | Sigma-Aldrich |
| Anti-phospho-ERK1/2 (Y204/T202) rabbit primary antibody | 1:1000 | Cell Signalling |
| Anti-GAPDH mouse primary antibody | 1:2000 | Santa Cruz |
| Donkey anti-mouse LI-COR 700nm secondary antibody | 1:5000 | LI-COR |
| Donkey anti-rabbit LI-COR 800nm secondary antibody | 1:5000 | LI-COR |
| PLX4032 (Vemurafenib, RG7204) | Final conc.  [1µM] | Sellekchem |