**Table S8. Key Resources**

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| **Reagent or resource** | **Source** | **Identifier** |
| Cell lines | ATCC | HEK293T, HET-1A |
| Cell lines | Thomas Carey (University of Michigan) | SCC-25 |
| Cell lines | Gerard Milano (University of Nice, Nice, France) | CAL-33 |
| NanoBiT G-protein dissociation assay | Dr. Asuka Inoue (Tohoku University, Japan) | NanoBiT plasmids (pCAGGS) include Gαi1-LgBiT, Gβ1-native, and SmBiT-Gγ2 (CAAX C68S mutant). Gαi-DREADD (pcDNA3.1) |
|  |  |  |
| Antibodies |  |  |
| RSK1/2/3 antibody | Cell Signaling Technology | 9355 |
| ERK1/2 | Cell Signaling Technology | 4695 |
| phospho-PAK1(S199/204)/PAK2(S192/197) | Cell Signaling Technology | 2605 |
| PAK1 | Cell Signaling Technology | 2602 |
| PAK2 | Cell Signaling Technology | 2608 |
| pERK | Cell Signaling Technology | 9106 |
| FGFR3 | OriGene | TA801078 |
| Daple | Millipore EMD | ABS515 |
| GAPDH | Cell Signaling Technology | 2118 |
| secondary goat anti-rabbit HRP | Southern Biotech | 4010-05 |
| P-HER3-Y1197 | Cell Signaling Technology | 4561 |
| HER3 | Cell Signaling Technology | 12708 |
| goat anti-mouse HRP | Southern Biotech | 1010-05 |
| anti-B-tubulin | Abcam | ab6276 |
| ERK | Cell Signaling Technology | 9102 |
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| **Deposited data** |  |  |
| Unprocessed peptide files | This paper | PRIDE ProteomeXchange: PXD019469 |
| Raw data | This paper | PRIDE ProteomeXchange: PXD019469 |
|  |  |  |
| **Chemicals, Peptides, and Recombinant Proteins** |  |  |
| Tris | G-Biosciences | RC108 |
| Acetonitrile, HPLC grade (ACN) | Thermo Fisher Scientific | A955-4 |
| cOmplete protease inhibitor cocktail tablets mini, EDTA-free | Roche | 11846 170 001 |
| Dithiothreitol (DTT) | Sigma-Aldrich | 43819 |
| Formic acid (FA) | Thermo Fisher Scientific | 28905 |
| Iodoacetamide (IAA) | Acros Organic | 122270250 |
| Sequencing-grade modified trypsin | Promega | V5111 |
| Benzonase | Sigma | E1014-25KU |
| Trifluoroacetic acid (TFA) | Thermo Fisher Scientific | 28904 |
| Urea | Sigma-Aldrich | U5378-1kg |
| Fetal bovine serum (FBS) | Gibco | A3160502 |
| DMEM | Corning | MT10013CV |
| DMEM/F12 | Corning | MT10092CV |
| Water, HPLC grade | Sigma-Aldrich | 270733-4 L |
| Igepal (NP-40) | Sigma-Aldrich | I3021 |
| Minimal Essential Media | Corning | 10-009-CV |
| Opti-MEM | Thermo Fisher Scientific | [31985062](https://www.thermofisher.com/order/catalog/product/31985062) |
| BEGM™ (Lonza) | Lonza | CC-3170 |
| 1% Penicillin-Streptomycin | Corning | MT30002Cl |
| Paraformaldehyde, 4% solution in PBS | Thermo Scientific | MFCD00133991 |
| PolyJet | SignaGen | SL100688 |
| Lipofectamine 3000 | ThermoFisher Scientific | L3000008 |
| hydrocortisone | Sigma | H6909-10ML |
| Rapigest | Waters | 186001861 |
| 3x Flag Peptide | Sigma | F4799-4MG |
| Anti-Flag M2 Magnetic Beads | Sigma | M8823-5ML |
| Lipofectamine RNAiMAX | Thermo Fisher Scientific | 100014472 |
| siFGFR3 | Sigma Aldrich | SIHK0780, SIHK0781, SIHK0782 |
| native coelenterazine | Biotium | 10110-1 |
| pooled siControl | Dharmacon | D-001810-10-20 |
| siDaple | Dharmacon | L-033364-01-0005 |
| 10µM clozapine-N-oxide | Cayman Chemical | NC1044836 |
| 5µM native coelenterazine | Biotium | 10110-1 |
| RPS6KA1 siRNA pool | OriGene | SR304161 |
| non-targeting control siRNA | Dharmacon | D-001810-10 |
| Triton X-100 | Thermo Scientific | 9002-93-1 |
|  |  |  |
| **Software and Algorithms** |  |  |
| artMS | Bioconductor | <https://www.bioconductor.org/packages/release/bioc/html/artMS.html> |
| MSstats | Bioconductor | <https://bioconductor.org/packages/release/bioc/html/MSstats.html> |
| Skyline | MacCoss Lab | <https://skyline.ms/project/home/begin.view?> |
| The R Project for Statistical Computing | R Core Team, 2019. R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. | <http://www.r-project.org/index.html> |
| Morpheus | Broad Institute | <https://software.broadinstitute.org/morpheus> |
| MaxQuant (version 1.6.2.10) | Jurgen Cox Lab | <https://www.maxquant.org/> |
| InstantClue |  | <http://www.instantclue.uni-koeln.de/> |
| CompPASS (version 0.0.0.9000) | github | <https://github.com/dnusinow/cRomppass/blob/master/R/comppass.R> |
| SAINTexpress (version 3.6.1) | Sourceforge | <https://sourceforge.net/projects/saint-apms/files/> |
| **Other** |  |  |
| 1.9μM C18 particles | Dr. Maisch | R119.aq.0001 |
| picotip column | New Objective | PF360-75-10-N-5 |
| C18 Stage tips | Rainin | 17014047 |
| Orbitrap Elite mass spectrometer | Thermo Fisher Scientific | IQLAAEGAAPFADBMAZQ |
| Q-Exactive Plus mass spectrometer | Thermo Fisher Scientific | IQLAAEGAAPFALGMBDK |