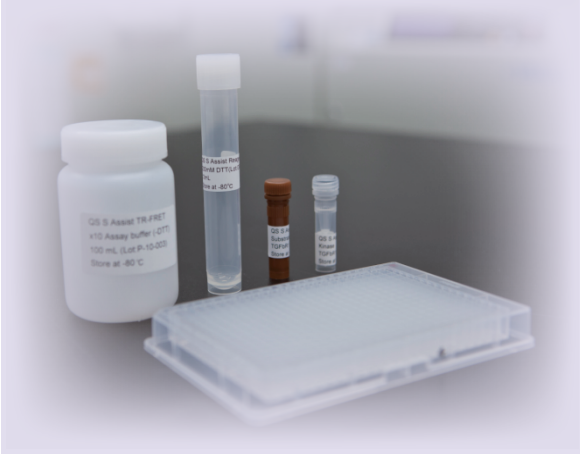
CARNA BIOSCIENCES

Accelerate Discovery! Benefit from the assay expertise of Carna Biosciences...

QuickScout Screening Assist™ Kits



QuickScout Screening Assist™ Kits are designed to speed you through compound screening, particularly secondary- and counter- screening operations, by providing necessary reagents and detailed assay protocols, for more than 300 human kinases. Each kinase kit is made-to-order, with turnaround time of 2-3 weeks.

Advantages of Carna's Assay Kits...

- Prepared utilizing the extensive expertise of our profiling services
- Ready-To-Run products & protocols
- One kit allows you multiple assays

Designed for primary, in-house screening procedures - Lead Generation through Lead Optimization!

Total **327** Kinases*

* As of October 10, 2014

Platform	Minimum Size	Available Target	Kit Components
Mobility Shift Assay QSS Assist™ MSA This MSA kit works best using LabChip® technology from PerkinElmer, Inc.	400dp Equivalent to 1 x 384-well plate	**284** Kinases	● Protein Kinase ● Substrate Mixture (ATP, Metal included) ● Assay Buffer ● Termination Buffer ● Assay Protocol (Separation conditions included) * Protocol sample is available online. After initial kit purchase, components may be purchased separately. Minimum order requirements apply. * The dilution ratio and MSA measuring parameters are different by kinase.
FP(IMAP™) QSS Assist™ FP	800dp Equivalent to 2 x 384-well plate	**79** Kinases	● Protein Kinase ● Substrate Mixture ● Assay Buffer ● Assay Protocol
TR-FRET QSS Assist™ TR-FRET	800dp Equivalent to 2 x 384-well plate	**27** Kinases	● Protein Kinase ● Substrate Mixture ● Assay Buffer ● Assay Protocol
ELISA QSS Assist™ ELISA	500dp Equivalent to 5 x 96-well plate	**35** Kinases	● Protein Kinase ● Substrate Mixture ● Assay Buffer ● Antibody for ELISA (except for TTK & WEE1) ● Assay Protocol

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QuickScout Screening Assist™ Kits from Carna Biosciences, Inc.

Tyrosine Kinases	MSA	TR-FRET
ABL(ABL1)	●	
ABL(ABL1) [E255K]	●	
ABL(ABL1) [T315I]	●	
ACK(TNK2)	●	
ALK	●	●
ALK [C1156Y]	●	
ALK [F1174L]	●	
ALK [G1202R]	●	
ALK [L1196M]	●	
ALK [R1275Q]	●	
ALK [T1151_L1152insT]	●	
EML4-ALK	●	
NPM1-ALK	●	
ALK2(ACVR1)		●
ALK4(ACVR1B)		●
ARG(ABL2)	●	
AXL	●	●
BLK	●	
BMX	●	
BRK(PTK6)	●	
BTK	●	●
CSK	●	●
DDR1	●	
DDR2	●	
EGFR	●	
EGFR [d746-750]	●	
EGFR [d746-750/T790M]	●	
EGFR [L858R]	●	
EGFR [L861Q]	●	
EGFR [T790M/L858R]	●	
EGFR [T790M]	●	
EPHA1	●	
EPHA2	●	●
EPHA3	●	
EPHA4	●	
EPHA5	●	
EPHA6	●	
EPHA7	●	
EPHA8	●	
EPHB1	●	
EPHB2	●	
EPHB3	●	
EPHB4	●	
FAK(PTK2)	●	●
FER	●	
FES	●	●
FGFR1	●	
FGFR1 [V561M]	●	
FGFR2	●	
FGFR2 [N549H]	●	
FGFR3	●	●
FGFR3 [G697C]	●	
FGFR3 [K650E]	●	
FGFR3 [K650M]	●	
FGFR3 [V555M]	●	
FGFR4	●	
FGFR4 [N535K]	●	
FGFR4 [V550E]	●	
FGFR4 [V550L]	●	
FGR	●	
FLT1	●	
FLT3	●	●
FLT4	●	
FMS(CSF1R)	●	
FRK	●	
FYN[isoform a]	●	
FYN[isoform b]	●	
HCK	●	●
HER2(ERBB2)	●	
HER4(ERBB4)	●	
IGF1R	●	●
INSR	●	
IRR(INSRR)	●	
ITK	●	
JAK1	●	●
JAK2	●	●
JAK2(JH1 JH2)	●	
JAK2(JH1 JH2) [V617F]	●	
JAK3	●	●
KDR	●	
KIT	●	
KIT [D816E]	●	
KIT [D816V]	●	
KIT [D816Y]	●	
KIT [T670I]	●	
KIT [V560G]	●	
KIT [V560G/D816V]	●	
KIT [V654A]	●	
LCK	●	●
LTK	●	
LYNa	●	●
LYNb	●	
MER(MERTK)	●	●
MET	●	●
MET [D1228H]	●	
MET [M1250T]	●	
MET [Y1235D]	●	
MUSK	●	
PDGFRα(PDGFRA)	●	
PDGFRα(PDGFRA) [D842V]	●	
PDGFRα(PDGFRA) [T674I]	●	
PDGFRα(PDGFRA) [V561D]	●	
PDGFRβ(PDGFRB)	●	●
PYK2(PTK2B)	●	
RET	●	
RET [G691S]	●	
RET [M918T]	●	
RET [S891A]	●	
RET [Y791F]	●	
RON(MST1R)	●	
ROS(ROS1)	●	
SRC	●	
SRM(SRMS)	●	
SYK	●	●
TEC	●	
TIE2(TEK)	●	●
TNK1	●	

Tyrosine Kinases	MSA	TR-FRET
TRKA(NTRK1)	●	●
TRKB(NTRK2)	●	
TRKC(NTRK3)	●	
TXK	●	
TYK2	●	●
TYRO3	●	
YES(YES1)	●	
YES(YES1) [T348I]	●	

Serine/Threonine Kinases	MSA	FP (IMAP™)	ELISA	TR-FRET
AKT1	●	●		
AKT2	●	●		
AKT3	●	●		
AMPKα1/β1/γ1(PRKAA1/B1/G1)	●			
AMPKα2/β1/γ1(PRKAA2/B1/G1)	●			
AurA(AURKA)	●	●		
AurA(AURKA)/TPX2	●			
AurB(AURKB)/INCENP	●	●		
AurC(AURKC)	●	●		
BMPR1A			●	
BMPR1B				●
BRAF			●	
BRAF [V600E]			●	
BRSK1	●			
BRSK2	●	●		
CaMK1α(CAMK1)	●			
CaMK1δ(CAMK1D)	●			
CaMK2α(CAMK2A)	●	●		
CaMK2β(CAMK2B)	●			
CaMK2δ(CAMK2D)	●			
CaMK2γ(CAMK2G)	●			
CaMK4	●	●		
CDC2/CycB1	●	●		
CDC2L6/CycC			●	
CDC7/ASK	●		●	
CDK2/CycA2	●	●		
CDK2/CycE1	●			
CDK3/CycE1	●	●		
CDK4/CycD3	●	●		
CDK5/p25	●	●		
CDK6/CycD3	●			
CDK7/CycH/MAT1	●			
CDK8/CycC			●	
CDK9/CycT1	●			
CGK2(PRKG2)	●	●		
CHK1(CHEK1)	●	●		
CHK2(CHEK2)	●	●		
CK1α(CSNK1A1)	●			
CK1δ(CSNK1D)	●	●		
CK1ε(CSNK1E)	●			
CK1γ1(CSNK1G1)	●			
CK1γ2(CSNK1G2)	●			
CK1γ3(CSNK1G3)	●			
CK2α1/β(CSNK2A1/B)	●			
CK2α2/β(CSNK2A2/B)	●			
CLK1	●	●		
CLK2	●			
CLK3	●			
COT(MAP3K8)			●	
CRIK(CIT)	●	●		
DAPK1	●	●		
DCAMKL2	●			
DLK(MAP3K12)			●	
DYRK1A	●			
DYRK1B	●			
DYRK2	●			
DYRK3	●			
DYRK4	●			
EEF2K	●			
Erk1(MAPK3)	●	●		
Erk2(MAPK1)	●	●		
Erk5(MAPK7)			●	
GSK3α(GSK3A)	●			
GSK3β(GSK3B)	●		●	
Haspin(GSG2)	●			
HGK(MAP4K4)	●	●		
HIPK1	●			
HIPK2	●			
HIPK3	●			
HIPK4	●			
IKKa(CHUK)		●		
IKKβ(IKBKB)	●			
IKKε(IKBKE)	●	●		
IRAK1		●		
IRAK4	●	●		
JNK1(MAPK8)			●	
JNK2(MAPK9)			●	
JNK3(MAPK10)			●	
LATS2	●			
LIMK1			●	
LKB1(STK11)/MO25a/STRADa			●	
LOK(STK10)	●			
MAP2K1			●	
MAP2K2			●	
MAP2K3			●	
MAP2K4			●	
MAP2K5			●	
MAP2K6			●	
MAP2K7			●	
MAP3K1			●	
MAP3K2			●	
MAP3K3			●	
MAP3K4			●	
MAP3K5			●	
MAP4K2	●			
MAPKAPK2	●	●		
MAPKAPK3	●	●		
MAPKAPK5	●	●		
MARK1	●			
MARK2	●			
MARK3	●			
MARK4	●			

Serine/Threonine Kinases	MSA	FP (IMAP™)	ELISA	TR-FRET
MELK	●	●		
MGC42105	●	●		
MINK(MINK1)	●			
MLK1(MAP3K9)			●	
MLK2(MAP3K10)			●	
MLK3(MAP3K11)			●	
MNK1(MKNK1)	●	●		
MNK2(MKNK2)	●	●		
MOS			●	
MRCKα(CDC42BPA)	●	●		
MRCKβ(CDC42BPB)	●			
MSK2(RPS6KA4)	●	●		
MSSK1(STK23)	●			
MST1(STK4)	●			
MST2(STK3)	●			
MST3(STK24)	●			
MST4	●	●		
NDR1(STK38)	●			
NDR2(STK38L)	●			
NEK1	●			
NEK2	●			
NEK4	●			
NEK6	●			
NEK7	●			
NEK9	●			
NuaK1	●	●		
NuaK2	●			
p38α(MAPK14)	●	●		
p38β(MAPK11)	●	●		
p38γ(MAPK12)	●	●		
p38δ(MAPK13)	●	●		
p70S6K(RPS6KB1)	●	●		
PAK1	●			
PAK2	●			
PAK4	●			
PAK5	●			
PAK6	●			
PASK	●	●		
PBK	●	●		
PDHK2(PDK2)	●			
PDHK4(PDK4)	●			
PEK		●		
PGK(PRKG1)	●	●		
PHKG1	●	●		
PHKG2	●			
PIM1	●	●		
PIM2	●	●		
PIM3	●			
PKACα(PRKACA)	●	●		
PKACβ(PRKACB)	●			
PKACγ(PRKACG)	●			
PKCα(PRKCA)	●	●		
PKCβ1(PRKCB1)	●	●		
PKCβ2(PRKCB2)	●			
PKCγ(PRKCG)	●			
PKCδ(PRKCD)	●	●		
PKCε(PRKCE)	●	●		
PKCζ(PRKCZ)	●	●		
PKCη(PRKCH)	●	●		
PKCθ(PRKCQ)	●	●		
PKCι(PRKCI)	●	●		
PKD1(PRKD1)	●	●		
PKD2(PRKD2)	●	●		
PKD3(PRKD3)	●	●		
PKR		●		
PLK1	●	●		
PLK2		●		
PLK3	●	●		
PRKX	●	●		
QIK(SNF1LK2)	●			
RAF1			●	
ROCK1	●	●		
ROCK2	●	●		
RSK1(RPS6KA1)	●	●		
RSK2(RPS6KA3)	●	●		
RSK3(RPS6KA2)	●	●		
RSK4(RPS6KA6)	●			
SGK	●	●		
SGK2	●			
SGK3(SGKL)	●	●		
SIK(SNF1LK)	●			
skMLCK(MYLK2)	●			
SLK	●			
SRPK1		●		
SRPK2	●	●		
TAK1-TAB1(MAP3K7)			●	
TAOK2	●			
TBK1	●			
TGFβR1(TGFBR1)				●
TNIK	●	●		
TSSK1	●			
TSSK2	●			
TSSK3	●			
TTK			●	
WEE1			●	
WNK1	●	●		
WNK2	●			
WNK3	●			

Lipid Kinase	MSA	FP (IMAP™)	ELISA	TR-FRET
PIK3CA/PIK3R1	●			
SPHK1	●			

MSA (Mobility Shift Assay)	284
FP (IMAP™)	79
TR-FRET	27
ELISA	35

Updated: 2014/10/10