

# HIV CTL Epitope Alignments

CTL

## Integrase Epitope 1

Epitope #	HLA
1	B*5101
<b>B.FR.HXB2</b>	<b>LPPVVAKEI</b>
<b>LPPVVAKEI</b>	
<b>CONSENSUS-A</b>	<b>---i-----</b>
A.KE.Q23-CXC-CG	---I-----
A.SE.SE6594	---I-----
A.SE.SE7253	---I-----
A.SE.SE7535	---I-----
A.SE.SE8131	---I-----
A.SE.SE8538	---I-----
A.SE.SE8891	---I-----
A.UG.92UG037	---I-----
A.UG.U455	-----
AC.ET.E3099G	---I-----
AC.IN.21301	---II-----
AC.RW.92RW009	---I-----
AC.SE.SE9488	---I-----
AC.ZM.ZAM184	---I-----
ACD.SE.SE8603	---I-----
AD.SE.SE6954	-----
AD.SE.SE7108	---I-----
ADU.CD.MAL	---I-----
AG.NG.G3	---I-----
AG.SE.SE7812	-----
AGHU.GA.VI354	---I-----
AGHU.NO.NOGIL3	---I-----
AGJ.AU.BFP90	---I-----
AGJ.ML.95ML8	---IL-----
AGU.CD.Z321	---I-----
CRF01_AE.CF.90CF40	---I-----
CRF01_AE.TH.93TH25	---I-----
CRF01_AE.TH.CM240	---I-----
CRF01_AE.TH.PAT-SC	---I-----
CRF01_AE.TH.TH022	---I-----
CRF01_AE.TH.TH047	-----
CRF02_AG.FR.DJ263	---II-----
CRF02_AG.FR.DJ264	---I-----
CRF02_AG.NG.IBNG	---I-----
CRF03_AB.RU.KAL153	-----
CRF04_CPX.CY.94CY0	--S-----
CRF04_CPX.GR.97PVC	-----
CRF04_CPX.GR.97PVM	-----
<b>CONSENSUS-B</b>	<b>-----</b>
B.-.NL43E9	-----
B.AU.MBC18	---I-----
B.AU.MBC200	-----
B.AU.MBC925	I-----
B.AU.MBCC54	-----
B.AU.MBCC98	---I---D-
B.AU.MBCD36	-----

B.CN.RL42	-----
B.DE.D31	-----
B.DE.HAN	-----
B.FR.HXB2	-----
B.GA.OYI	-----
B.GB.CAM1	-----
B.GB.MANC	-----
B.NL.3202A21	-----
B.TW.LM49	-----
B.US.AD8	---I-----
B.US.BC	-----
B.US.DH123	--A-----
B.US.JRCSF	---I-----
B.US.JRFL	-----
B.US.MNCG	---I-----
B.US.NY5CG	-----
B.US.P896	-----
B.US.RF	-----
B.US.SF2	-----
B.US.WEAU160	-----
B.US.WR27	---x-----
B.US.YU2	-----
BF.BR.93BR029.4	I-----
<b>CONSENSUS-C</b>	<b>---i-----</b>
C.BR.92BR025	---I-----
C.BW.96BW01B03	---I-----
C.BW.96BW0402	---I-----
C.BW.96BW0502	---I-----
C.BW.96BW1104	---I-----
C.BW.96BW1210	---I-----
C.BW.96BW15B03	---I-----
C.BW.96BW1626	---I-----
C.BW.96BW17A09	---I-----
C.ET.ETH2220	I---P---
C.IN.21068	-----
C.IN.301904	-----
C.IN.301905	-----
C.IN.301999	---I-----
C.IN.94IN11246	-----
<b>CONSENSUS-D</b>	<b>-----</b>
D.CD.84ZR085	-----
D.CD.ELI	-----
D.CD.NDK	-----
D.CD.Z2Z6	-----
D.UG.94UG1141	-----
DF.CD.VI961	-----
<b>CONSENSUS-F</b>	<b>-----</b>
F1.BE.VI850	---I-----
F1.BR.93BR020.1	I-A-----
F1.FI.FIN9363	-----
F1.FR.MP411	-----
F2.CM.MP257	-----

F2.CM.MP257	-----
<b>CONSENSUS-G</b>	<b>---i-----</b>
G.BE.DRCBL	---I-----
G.FI.HH8793	--HI-----
G.NG.92NG083	-----
G.SE.SE6165	---I-----
<b>CONSENSUS-H</b>	<b>---I-----</b>
H.BE.VI991	---I-----
H.BE.VI997	---I-----
H.CF.90CF056	---I-----
<b>CONSENSUS-J</b>	<b>-----</b>
J.SE.SE9173	-----
J.SE.SE9280	-----
<b>CONSENSUS-K</b>	<b>---?-----</b>
K.CD.EQTb11C	-----
K.CM.MP535	---I-----
<b>CONSENSUS-N</b>	<b>---I-----</b>
N.CM.YBF30	---I-----
<b>CONSENSUS-O</b>	<b>---?-----</b>
O.CM.ANT70C	-----
O.CM.MVP5180	---I-----
<b>CONSENSUS-U</b>	<b>---I-----</b>
U.CD.VI1126	---I-----
<b>CONSENSUS-CPZ</b>	<b>---i-----</b>
CPZ.CD.CPZANT	---I-----
CPZ.GA.CPZGAB	---I-----
CPZ.US.CPZUS	-----

## Integrase Epitope 2

Epitope #	HLA			
2	GYIEAEVI	A*2402	B.CN.RL42	-----
<b>B.FR.HXB2</b>	<b>GYIEAEVI</b>		B.DE.D31	-----
			B.DE.HAN	-----
<b>CONSENSUS-A</b>	-----		B.FR.HXB2	-----
A.KE.Q23-CXC-CG	-----		B.GA.OYI	-----
A.SE.SE6594	-----		B.GB.CAM1	-----
A.SE.SE7253	-----		B.GB.MANC	-----
A.SE.SE7535	-----		B.NL.3202A21	-----
A.SE.SE8131	-----		B.TW.LM49	-----
A.SE.SE8538	-----		B.US.AD8	-----
A.SE.SE8891	-----		B.US.BC	-----
A.UG.92UG037	--V-----		B.US.DH123	-----
A.UG.U455	-----		B.US.JRCSF	-----
AC.ET.E3099G	-----		B.US.JRFL	-----
AC.IN.21301	-----		B.US.MNCG	-----
AC.RW.92RW009	-----		B.US.NY5CG	-----
AC.SE.SE9488	-----		B.US.P896	-----
AC.ZM.ZAM184	--M-----		B.US.RF	-----
ACD.SE.SE8603	-----		B.US.SF2	-----
AD.SE.SE6954	-----		B.US.WEAU160	-----
AD.SE.SE7108	-----		B.US.WR27	-----
ADU.CD.MAL	-----		B.US.YU2	-----
AG.NG.G3	-----		BF.BR.93BR029.4	-----
AG.SE.SE7812	-----		<b>CONSENSUS-C</b>	-----
AGHU.GA.VI354	-----		C.BR.92BR025	-----
AGHU.NO.NOGIL3	-----		C.BW.96BW01B03	--M-----
AGJ.AU.BFP90	-----		C.BW.96BW0402	-----
AGJ.ML.95ML8	-----		C.BW.96BW0502	--M-----
AGU.CD.Z321	-----		C.BW.96BW1104	-----
CRF01_AE.CF.90CF40	-----		C.BW.96BW1210	-----
CRF01_AE.TH.93TH25	-----		C.BW.96BW15B03	-----
CRF01_AE.TH.CM240	-----		C.BW.96BW1626	-----
CRF01_AE.TH.PAT-SC	-----		C.BW.96BW17A09	-----
CRF01_AE.TH.TH022	-----		C.ET.ETH2220	-----
CRF01_AE.TH.TH047	-----		C.IN.21068	--M-----
CRF02_AG.FR.DJ263	-----		C.IN.301904	-----
CRF02_AG.FR.DJ264	-----		C.IN.301905	-----
CRF02_AG.NG.IBNG	-----		C.IN.301999	-----
CRF03_AB.RU.KAL153	-----		C.IN.94IN11246	--M-----
CRF04_CPX.CY.94CY0	-----		<b>CONSENSUS-D</b>	-----
CRF04_CPX.GR.97PVC	-----		D.CD.84ZR085	-----
CRF04_CPX.GR.97PVM	-----		D.CD.ELI	-----
<b>CONSENSUS-B</b>	-----		D.CD.NDK	-----
B.-.NL43E9	-----		D.CD.Z2Z6	-----
B.AU.MBC18	-----		D.UG.94UG1141	-----
B.AU.MBC200	-----		DF.CD.VI961	-----
B.AU.MBC925	-----		<b>CONSENSUS-F</b>	-----
B.AU.MBCC54	-----		F1.BE.VI850	E-----
B.AU.MBCC98	---D----		F1.BR.93BR020.1	--L-----
B.AU.MBCD36	-----		F1.FI.FIN9363	-----
			F1.FR.MP411	-----
			F2.CM.MP257	-----
			<b>CONSENSUS-G</b>	-----
			G.BE.DRCBL	-----
			G.FI.HH8793	-----
			G.NG.92NG083	-----
			G.SE.SE6165	-----
			<b>CONSENSUS-H</b>	-----
			H.BE.VI991	-----
			H.BE.VI997	---xP---
			H.CF.90CF056	-----
			<b>CONSENSUS-J</b>	-----
			J.SE.SE9173	-----
			J.SE.SE9280	-----
			<b>CONSENSUS-K</b>	-----
			K.CD.EQTB11C	-----
			K.CM.MP535	-----
			<b>CONSENSUS-N</b>	--L-----
			N.CM.YBF30	--L-----
			<b>CONSENSUS-O</b>	?F-----
			O.CM.ANT70C	-F-----
			O.CM.MVP5180	DF-----
			<b>CONSENSUS-U</b>	-----
			U.CD.VI1126	-----
			<b>CONSENSUS-CPZ</b>	-----
			CPZ.CD.CPZANT	-F-----M
			CPZ.GA.CPZGAB	-----
			CPZ.US.CPZUS	--L-----

# HIV CTL Epitope Alignments

CTL

## Integrase Epitope 3

Epitope #		HLA
3	ETAYFILKL	A*6802
<b>B.FR.HXB2</b>	<b>ETAYFLKL</b>	
<b>CONSENSUS-A</b>	-----	
A.KE.Q23-CXC-CG	-----	
A.SE.SE6594	-----	
A.SE.SE7253	-----	
A.SE.SE7535	-----I---	
A.SE.SE8131	-A-----	
A.SE.SE8538	-----	
A.SE.SE8891	-----	
A.UG.92UG037	-----	
A.UG.U455	-----I---	
AC.ET.E3099G	-----SI---	
AC.IN.21301	-----YI---	
AC.RW.92RW009	-----I---	
AC.SE.SE9488	-----	
AC.ZM.ZAM184	-----I---	
ACD.SE.SE8603	-----	
AD.SE.SE6954	-----	
AD.SE.SE7108	-----I---	
ADU.CD.MAL	-----I---	
AG.NG.G3	-----	
AG.SE.SE7812	-----I---	
AGHU.GA.VI354	-----I---	
AGHU.NO.NOGIL3	-----I---	
AGJ.AU.BFP90	-----I---	
AGJ.ML.95ML8	-----I---	
AGU.CD.Z321	-----I---	
CRF01_AE.CF.90CF40	-----	
CRF01_AE.TH.93TH25	-----	
CRF01_AE.TH.CM240	-----	
CRF01_AE.TH.PAT-SC	-----	
CRF01_AE.TH.TH022	-----	
CRF01_AE.TH.TH047	-----	
CRF02_AG.FR.DJ263	-----I---	
CRF02_AG.FR.DJ264	-----I---	
CRF02_AG.NG.IBNG	-----I---	
CRF03_AB.RU.KAL153	-----V---	
CRF04_CPX.CY.94CY0	-----I---	
CRF04_CPX.GR.97PVC	-----I---	
CRF04_CPX.GR.97PVM	-----I---	
<b>CONSENSUS-B</b>	-----	
B.-.NL43E9	-----	
B.AU.MBC18	-----I---	
B.AU.MBC200	-----	
B.AU.MBC925	-----	
B.AU.MBCC54	D-----	
B.AU.MBCC98	D-----T-	
B.AU.MBCD36	D-----R-	

B.CN.RL42	-----
B.DE.D31	-----I---
B.DE.HAN	-----
B.FR.HXB2	-----
B.GA.OYI	-----I---
B.GB.CAM1	-----
B.GB.MANC	-----
B.NL.3202A21	-----I---
B.TW.LM49	-----
B.US.AD8	-----I---
B.US.BC	-----
B.US.DH123	-----I---
B.US.JRCSF	-----
B.US.JRFL	-----
B.US.MNCG	-----
B.US.NY5CG	-----
B.US.P896	-----
B.US.RF	-----I---
B.US.SF2	-----
B.US.WEAU160	-----I---
B.US.WR27	-----I---
B.US.YU2	-----
BF.BR.93BR029.4	-----
<b>CONSENSUS-C</b>	-----i---
C.BR.92BR025	-----I---
C.BW.96BW01B03	-----YI---
C.BW.96BW0402	-----YI---
C.BW.96BW0502	-----I---
C.BW.96BW1104	-----YI---
C.BW.96BW1210	-----I---
C.BW.96BW15B03	-----YI---
C.BW.96BW1626	-----I---
C.BW.96BW17A09	-----D-I---
C.ET.ETH2220	-----
C.IN.21068	-----I---
C.IN.301904	-----I---
C.IN.301905	-----I---
C.IN.301999	-----YI---
C.IN.94IN11246	-----I---
<b>CONSENSUS-D</b>	-----
D.CD.84ZR085	-A-----
D.CD.ELI	-----
D.CD.NDK	-----
D.CD.Z2Z6	-----I---
D.UG.94UG1141	-----
DF.CD.VI961	-----I---
<b>CONSENSUS-F</b>	-----i---
F1.BE.VI850	-----I---
F1.BR.93BR020.1	-----
F1.FI.FIN9363	D-----I---
F1.FR.MP411	-----I---
F2.CM.MP255	-----I---

F2.CM.MP257	-A---I---
<b>CONSENSUS-G</b>	-----I---
G.BE.DRCBL	-----I---
G.FI.HH8793	-----I---
G.NG.92NG083	-----I---
G.SE.SE6165	-----I---
<b>CONSENSUS-H</b>	-----i---
H.BE.VI991	-----I---
H.BE.VI997	-----I---
H.CF.90CF056	-----
<b>CONSENSUS-J</b>	-A-F-I---
J.SE.SE9173	-A-F-I---
J.SE.SE9280	-A-F-I---
<b>CONSENSUS-K</b>	-----I---
K.CD.EQTB11C	-----I---
K.CM.MP535	-----I---
<b>CONSENSUS-N</b>	-----I---
N.CM.YBF30	-----I---
<b>CONSENSUS-O</b>	-----
O.CM.ANT70C	-----
O.CM.MVP5180	-----
<b>CONSENSUS-U</b>	---F-I---
U.CD.VI1126	---F-I---
<b>CONSENSUS-CPZ</b>	-----
CPZ.CD.CPZANT	S-----
CPZ.GA.CPZGAB	-----
CPZ.US.CPZUS	-----I---

### Integrase Epitope 4

Epitope #		HLA
4		B57
<b>B.FR.HXB2</b>	<b>KTAVQMAVF</b>	<b>KTAVQMAVF</b>
<b>CONSENSUS-A</b>	-----	
A.KE.Q23-CXC-CG	-----	
A.SE.SE6594	-----	
A.SE.SE7253	-----	
A.SE.SE7535	-----	
A.SE.SE8131	R-----	
A.SE.SE8538	-----	
A.SE.SE8891	-----	
A.UG.92UG037	-----	
A.UG.U455	-----	
AC.ET.E3099G	-----	
AC.IN.21301	-----	
AC.RW.92RW009	R-----	
AC.SE.SE9488	-----	
AC.ZM.ZAM184	-----	
ACD.SE.SE8603	-----	
AD.SE.SE6954	R-----	
AD.SE.SE7108	-----	
ADU.CD.MAL	-----	
AG.NG.G3	-----	
AG.SE.SE7812	-----L	
AGHU.GA.VI354	-----	
AGHU.NO.NOGIL3	---x---	
AGJ.AU.BFP90	-----	
AGJ.ML.95ML8	-----	
AGU.CD.Z321	-----	
CRF01_AE.CF.90CF40	-----	
CRF01_AE.TH.93TH25	-----	
CRF01_AE.TH.CM240	-----	
CRF01_AE.TH.PAT-SC	-----	
CRF01_AE.TH.TH022	-----	
CRF01_AE.TH.TH047	-----	
CRF02_AG.FR.DJ263	-----	
CRF02_AG.FR.DJ264	-----	
CRF02_AG.NG.IBNG	-----	
CRF03_AB.RU.KAL153	-----	
CRF04_CPX.CY.94CY0	-----	
CRF04_CPX.GR.97PVC	-----	
CRF04_CPX.GR.97PVM	-----	
<b>CONSENSUS-B</b>	-----	
B.-.NL43E9	---H---	
B.AU.MBC18	-----	
B.AU.MBC200	-----	
B.AU.MBC925	-----	
B.AU.MBCC54	-----	
B.AU.MBCC98	-----	
B.AU.MBCD36	-----	

B.CN.RL42	-----
B.DE.D31	-----
B.DE.HAN	-----
B.FR.HXB2	-----
B.GA.OYI	-----
B.GB.CAM1	-----
B.GB.MANC	-----
B.NL.3202A21	-----
B.TW.LM49	-----
B.US.AD8	-----
B.US.BC	-----
B.US.DH123	-----
B.US.JRCSF	-----
B.US.JRFL	-----
B.US.MNCG	-R-----
B.US.NY5CG	-----
B.US.P896	-----
B.US.RF	-----
B.US.SF2	-----
B.US.WEAU160	-----
B.US.WR27	-----
B.US.YU2	-----
BF.BR.93BR029.4	----T---
<b>CONSENSUS-C</b>	-----
C.BR.92BR025	-----
C.BW.96BW01B03	-----
C.BW.96BW0402	-----
C.BW.96BW0502	-----
C.BW.96BW1104	-----
C.BW.96BW1210	-----
C.BW.96BW15B03	-----
C.BW.96BW1626	-----
C.BW.96BW17A09	----L---
C.ET.ETH2220	-----
C.IN.21068	-----
C.IN.301904	-----
C.IN.301905	-----
C.IN.301999	----V---
C.IN.94IN11246	-----
<b>CONSENSUS-D</b>	-----
D.CD.84ZR085	-----
D.CD.ELI	-----
D.CD.NDK	-----
D.CD.Z2Z6	-----
D.UG.94UG1141	-----
DF.CD.VI961	-----
<b>CONSENSUS-F</b>	-----
F1.BE.VI850	-----
F1.BR.93BR020.1	-----
F1.FI.FIN9363	-----
F1.FR.MP411	-----
F2.CM.MP255	-----

F2.CM.MP257	-----
<b>CONSENSUS-G</b>	-----
G.BE.DRCBL	-----
G.FI.HH8793	-----
G.NG.92NG083	-----
G.SE.SE6165	-----
<b>CONSENSUS-H</b>	r-----
H.BE.VI991	R-----
H.BE.VI997	R-----
H.CF.90CF056	-----
<b>CONSENSUS-J</b>	-----
J.SE.SE9173	-----
J.SE.SE9280	-----
<b>CONSENSUS-K</b>	-----
K.CD.EQTB11C	-----
K.CM.MP535	-----
<b>CONSENSUS-N</b>	-----
N.CM.YBF30	-----
<b>CONSENSUS-O</b>	?-----
O.CM.ANT70C	R-----
O.CM.MVP5180	-----
<b>CONSENSUS-U</b>	-----
U.CD.VI1126	-----
<b>CONSENSUS-CPZ</b>	-----
CPZ.CD.CPZANT	----V---H
CPZ.GA.CPZGAB	-----
CPZ.US.CPZUS	-----

HIV CTL Epitope Alignments

CTL

**Integrase Epitopes 5, 6**

Epitope # HLA  
 5 LLWKGEAV A\*0201  
 6 LLWKGEAV A2  
**B.FR.HXB2 LLWKGEAV**

**CONSENSUS-A** -----  
 A.KE.Q23-CXC-CG -F-----  
 A.SE.SE6594 -----  
 A.SE.SE7253 -----  
 A.SE.SE7535 -----  
 A.SE.SE8131 -----  
 A.SE.SE8538 -----  
 A.SE.SE8891 -----  
 A.UG.92UG037 -----  
 A.UG.U455 -----  
 AC.ET.E3099G -----  
 AC.IN.21301 -----  
 AC.RW.92RW009 -----  
 AC.SE.SE9488 -----  
 AC.ZM.ZAM184 -----  
 ACD.SE.SE8603 -----  
 AD.SE.SE6954 -----  
 AD.SE.SE7108 -----  
 ADU.CD.MAL -----  
 AG.NG.G3 -----  
 AG.SE.SE7812 -----  
 AGHU.GA.VI354 -----  
 AGHU.NO.NOGIL3 -----  
 AGJ.AU.BFP90 -----  
 AGJ.ML.95ML8 -----  
 AGU.CD.Z321 -----  
 CRF01\_AE.CF.90CF40 -----  
 CRF01\_AE.TH.93TH25 -----  
 CRF01\_AE.TH.CM240 -----  
 CRF01\_AE.TH.PAT-SC -----  
 CRF01\_AE.TH.TH022 -----  
 CRF01\_AE.TH.TH047 -----  
 CRF02\_AG.FR.DJ263 -----  
 CRF02\_AG.FR.DJ264 -----  
 CRF02\_AG.NG.IBNG -----  
 CRF03\_AB.RU.KAL153 -----  
 CRF04\_CPX.CY.94CY0 -----  
 CRF04\_CPX.GR.97PVC -----  
 CRF04\_CPX.GR.97PVM -----  
  
**CONSENSUS-B** -----  
 B.-.NL43E9 -----  
 B.AU.MBC18 -----  
 B.AU.MBC200 -----  
 B.AU.MBC925 -----  
 B.AU.MBCC54 -----  
 B.AU.MBCC98 -----

B.AU.MBCD36 -----  
 B.CN.RL42 -----  
 B.DE.D31 -----  
 B.DE.HAN -----  
 B.FR.HXB2 -----  
 B.GA.OYI -----  
 B.GB.CAM1 -----  
 B.GB.MANC -----  
 B.NL.3202A21 -----  
 B.TW.LM49 -----  
 B.US.AD8 -----  
 B.US.BC -----  
 B.US.DH123 -----  
 B.US.JRCSF -----  
 B.US.JRFL -----  
 B.US.MNCG -----  
 B.US.NY5CG -----  
 B.US.P896 -----  
 B.US.RF -----  
 B.US.SF2 -----  
 B.US.WEAU160 -----  
 B.US.WR27 -----  
 B.US.YU2 -----  
 BF.BR.93BR029.4 -----  
  
**CONSENSUS-C** -----  
 C.BR.92BR025 -----  
 C.BW.96BW01B03 -----  
 C.BW.96BW0402 -----  
 C.BW.96BW0502 -----  
 C.BW.96BW1104 -----  
 C.BW.96BW1210 -----  
 C.BW.96BW15B03 -I-----  
 C.BW.96BW1626 -----  
 C.BW.96BW17A09 -----  
 C.ET.ETH2220 -----  
 C.IN.21068 -----  
 C.IN.301904 -----  
 C.IN.301905 -----  
 C.IN.301999 -----  
 C.IN.94IN11246 -----  
  
**CONSENSUS-D** -----  
 D.CD.84ZR085 -----  
 D.CD.ELI -----  
 D.CD.NDK -----  
 D.CD.Z2Z6 -----  
 D.UG.94UG1141 -----  
 DF.CD.VI961 -----  
  
**CONSENSUS-F** -----  
 F1.BE.VI850 -----  
 F1.BR.93BR020.1 -----  
 F1.FI.FIN9363 -----  
 F1.FR.MP411 -----

F2.CM.MP255 -----  
 F2.CM.MP257 -----  
  
**CONSENSUS-G** -----  
 G.BE.DRCBL -----  
 G.FI.HH8793 -----  
 G.NG.92NG083 -----  
 G.SE.SE6165 -----  
  
**CONSENSUS-H** -----  
 H.BE.VI991 -----  
 H.BE.VI997 -----  
 H.CF.90CF056 -----  
  
**CONSENSUS-J** -?------  
 J.SE.SE9173 -----  
 J.SE.SE9280 -P-----  
  
**CONSENSUS-K** -----  
 K.CD.EQTB11C -----  
 K.CM.MP535 -----  
  
**CONSENSUS-N** -----  
 N.CM.YBF30 -----  
  
**CONSENSUS-O** -----  
 O.CM.ANT70C -----  
 O.CM.MVP5180 -----  
  
**CONSENSUS-U** -----  
 U.CD.VI1126 -----  
  
**CONSENSUS-CPZ** -----  
 CPZ.CD.CPZANT -----  
 CPZ.GA.CPZGAB -----  
 CPZ.US.CPZUS -----