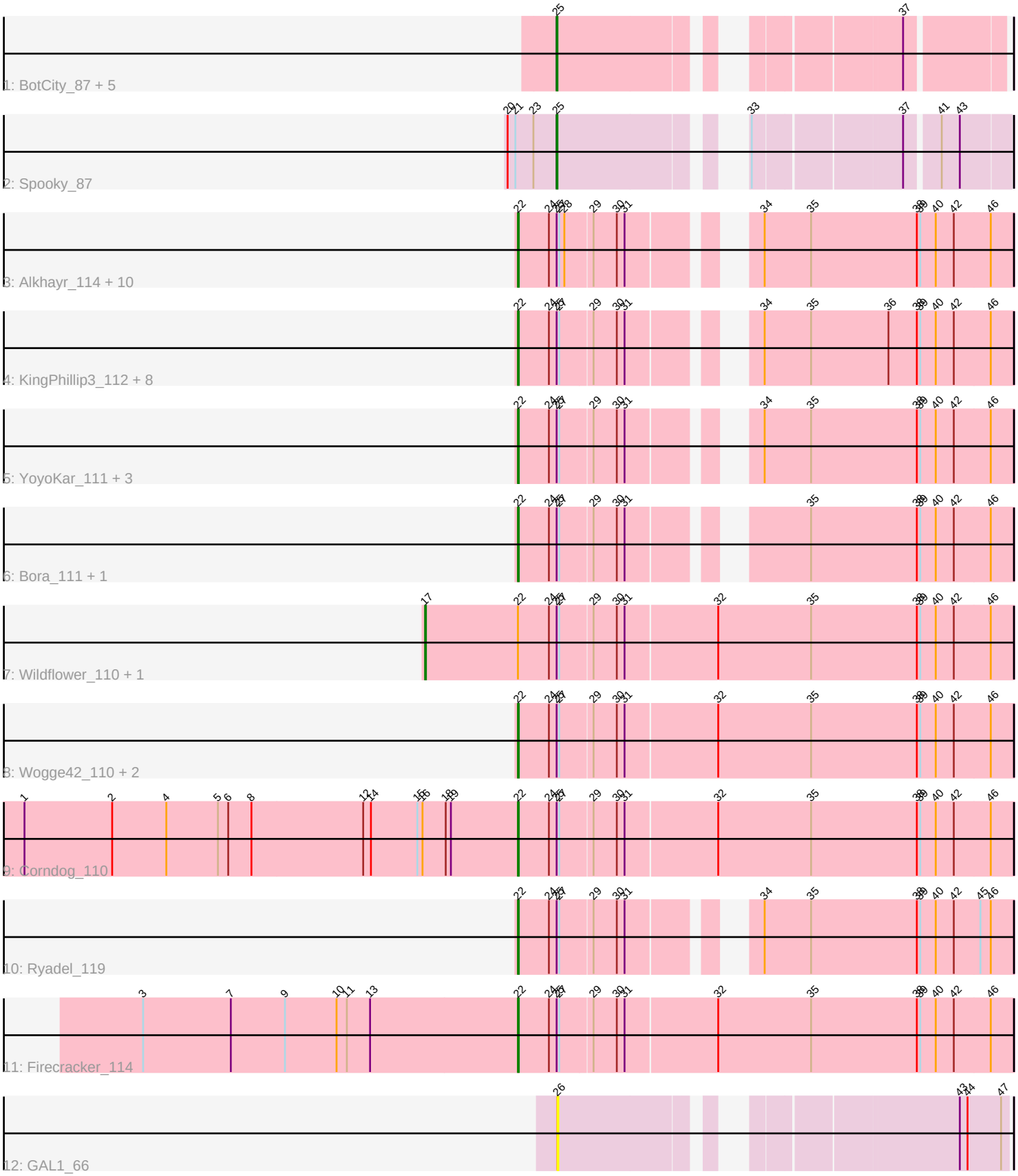
Pham 347778


1: BotCity_87 + 5
2: Spooky_87
3: Alkhayr_114 + 10
4: KingPhillip3_112 + 8
5: YoyoKar_111 + 3
6: Bora_111 + 1
7: Wildflower_110 + 1
8: Wogge42_110 + 2
9: Corndog_110
10: Ryadel_119
11: Firecracker_114
12: GAL1_66

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347778 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347778 has 42 members, 3 are drafts.

Phages represented in each track:
• Track 1 : BotCity_87, Lutum_86, Getalong_88, Phabuloso_92, Kenna_80, BENtherdunthat_85
• Track 2 : Spooky_87
• Track 3 : Alkhayr_114, Murai_114, FoulBall_113, Smooch_112, Catdawg_115, Schuy_114, MadKillah_117, Imara_113, Vagabond_113, Winget_114, YungJamal_111
• Track 4 : KingPhillip3_112, Blessica_114, SchoolBus_115, JangDynasty_112, Idergollasper_118, NiebruSaylor_114, Shida_114, TelAviv_111, Familton_116
• Track 5 : YoyoKar_111, Krili_116, Vorrps_114, Mori_114
• Track 6 : Bora_111, Zakhe101_110
• Track 7 : Wildflower_110, Ashwin_110
• Track 8 : Wogge42_110, Dylan_108, Zebo_113
• Track 9 : Corndog_110
• Track 10 : Ryadel_119
• Track 11 : Firecracker_114
• Track 12 : GAL1_66

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 22, it was called in 30 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alkhayr_114, Blessica_114, Bora_111, Catdawg_115, Corndog_110, Dylan_108, Familton_116, Firecracker_114, FoulBall_113, Idergollasper_118, Imara_113, JangDynasty_112, KingPhillip3_112, Krili_116, MadKillah_117, Mori_114, Murai_114, NiebruSaylor_114, Ryadel_119, SchoolBus_115, Schuy_114, Shida_114, Smooch_112, TelAviv_111, Vagabond_113, Vorrps_114, Winget_114, Wogge42_110, YoyoKar_111, YungJamal_111, Zakhe101_110, Zebo_113,

Genes that have the "Most Annotated" start but do not call it:
• Ashwin_110, Wildflower_110,

Genes that do not have the "Most Annotated" start:

• BENtherdunthat_85, BotCity_87, GAL1_66, Getalong_88, Kenna_80, Lutum_86, Phabuloso_92, Spooky_87,

Summary by start number:

Start 17:
• Found in 2 of 42 (4.8%) of genes in pham
• Manual Annotations of this start: 2 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashwin_110 (O), Wildflower_110 (O),

Start 22:
• Found in 34 of 42 (81.0%) of genes in pham
• Manual Annotations of this start: 30 of 39
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Alkhayr_114 (O), Blessica_114 (O), Bora_111 (O), Catdawg_115 (O), Corndog_110 (O), Dylan_108 (O), Familton_116 (O), Firecracker_114 (O), FoulBall_113 (O), Idergollasper_118 (O), Imara_113 (O), JangDynasty_112 (O), KingPhillip3_112 (O), Krili_116 (O), MadKillah_117 (O), Mori_114 (O), Murai_114 (O), NiebruSaylor_114 (O), Ryadel_119 (O), SchoolBus_115 (O), Schuy_114 (O), Shida_114 (O), Smooch_112 (O), TelAviv_111 (O), Vagabond_113 (O), Vorrps_114 (O), Winget_114 (O), Wogge42_110 (O), YoyoKar_111 (O), YungJamal_111 (O), Zakhe101_110 (O), Zebo_113 (O),

Start 25:
• Found in 41 of 42 (97.6%) of genes in pham
• Manual Annotations of this start: 7 of 39
• Called 17.1% of time when present
• Phage (with cluster) where this start called: BENtherdunthat_85 (DN1), BotCity_87 (DN), Getalong_88 (DN1), Kenna_80 (DN1), Lutum_86 (DN1), Phabuloso_92 (DN1), Spooky_87 (DN2),

Start 26:
• Found in 1 of 42 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GAL1_66 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: DN, singleton, DN1, O, DN2,

Info for manual annotations of cluster DN:
•Start number 25 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 25 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 25 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster O:
•Start number 17 was manually annotated 2 times for cluster O.

•Start number 22 was manually annotated 30 times for cluster O.

Gene Information:

Gene: Alkhayr_114 Start: 66256, Stop: 65741, Start Num: 22
Candidate Starts for Alkhayr_114:
(Start: 22 @66256 has 30 MA's), (24, 66220), (Start: 25 @66211 has 7 MA's), (27, 66208), (28, 66202), (29, 66172), (30, 66145), (31, 66136), (34, 66028), (35, 65974), (38, 65851), (39, 65848), (40, 65830), (42, 65809), (46, 65767),

Gene: Ashwin_110 Start: 65410, Stop: 64736, Start Num: 17
Candidate Starts for Ashwin_110:
(Start: 17 @65410 has 2 MA's), (Start: 22 @65302 has 30 MA's), (24, 65266), (Start: 25 @65257 has 7 MA's), (27, 65254), (29, 65218), (30, 65191), (31, 65182), (32, 65077), (35, 64969), (38, 64846), (39, 64843), (40, 64825), (42, 64804), (46, 64762),

Gene: BENtherdunthat_85 Start: 47138, Stop: 47569, Start Num: 25
Candidate Starts for BENtherdunthat_85:
(Start: 25 @47138 has 7 MA's), (37, 47462),

Gene: Blessica_114 Start: 66987, Stop: 66472, Start Num: 22
Candidate Starts for Blessica_114:
(Start: 22 @66987 has 30 MA's), (24, 66951), (Start: 25 @66942 has 7 MA's), (27, 66939), (29, 66903), (30, 66876), (31, 66867), (34, 66759), (35, 66705), (36, 66615), (38, 66582), (39, 66579), (40, 66561), (42, 66540), (46, 66498),

Gene: Bora_111 Start: 66940, Stop: 66425, Start Num: 22
Candidate Starts for Bora_111:
(Start: 22 @66940 has 30 MA's), (24, 66904), (Start: 25 @66895 has 7 MA's), (27, 66892), (29, 66856), (30, 66829), (31, 66820), (35, 66658), (38, 66535), (39, 66532), (40, 66514), (42, 66493), (46, 66451),

Gene: BotCity_87 Start: 48667, Stop: 49098, Start Num: 25
Candidate Starts for BotCity_87:
(Start: 25 @48667 has 7 MA's), (37, 48991),

Gene: Catdawg_115 Start: 67576, Stop: 67061, Start Num: 22
Candidate Starts for Catdawg_115:
(Start: 22 @67576 has 30 MA's), (24, 67540), (Start: 25 @67531 has 7 MA's), (27, 67528), (28, 67522), (29, 67492), (30, 67465), (31, 67456), (34, 67348), (35, 67294), (38, 67171), (39, 67168), (40, 67150), (42, 67129), (46, 67087),

Gene: Corndog_110 Start: 65213, Stop: 64647, Start Num: 22
Candidate Starts for Corndog_110:
(1, 65786), (2, 65684), (4, 65621), (5, 65561), (6, 65549), (8, 65522), (12, 65393), (14, 65384), (15, 65330), (16, 65324), (18, 65297), (19, 65291), (Start: 22 @65213 has 30 MA's), (24, 65177), (Start: 25 @65168 has 7 MA's), (27, 65165), (29, 65129), (30, 65102), (31, 65093), (32, 64988), (35, 64880), (38, 64757), (39, 64754), (40, 64736), (42, 64715), (46, 64673),

Gene: Dylan_108 Start: 65404, Stop: 64838, Start Num: 22
Candidate Starts for Dylan_108:

(Start: 22 @65404 has 30 MA's), (24, 65368), (Start: 25 @65359 has 7 MA's), (27, 65356), (29, 65320), (30, 65293), (31, 65284), (32, 65179), (35, 65071), (38, 64948), (39, 64945), (40, 64927), (42, 64906), (46, 64864),

Gene: Familton_116 Start: 67348, Stop: 66833, Start Num: 22
Candidate Starts for Familton_116:
(Start: 22 @67348 has 30 MA's), (24, 67312), (Start: 25 @67303 has 7 MA's), (27, 67300), (29, 67264), (30, 67237), (31, 67228), (34, 67120), (35, 67066), (36, 66976), (38, 66943), (39, 66940), (40, 66922), (42, 66901), (46, 66859),

Gene: Firecracker_114 Start: 66931, Stop: 66365, Start Num: 22
Candidate Starts for Firecracker_114:
(3, 67366), (7, 67264), (9, 67201), (10, 67141), (11, 67129), (13, 67102), (Start: 22 @66931 has 30 MA's), (24, 66895), (Start: 25 @66886 has 7 MA's), (27, 66883), (29, 66847), (30, 66820), (31, 66811), (32, 66706), (35, 66598), (38, 66475), (39, 66472), (40, 66454), (42, 66433), (46, 66391),

Gene: FoulBall_113 Start: 66539, Stop: 66024, Start Num: 22
Candidate Starts for FoulBall_113:
(Start: 22 @66539 has 30 MA's), (24, 66503), (Start: 25 @66494 has 7 MA's), (27, 66491), (28, 66485), (29, 66455), (30, 66428), (31, 66419), (34, 66311), (35, 66257), (38, 66134), (39, 66131), (40, 66113), (42, 66092), (46, 66050),

Gene: GAL1_66 Start: 42130, Stop: 42576, Start Num: 26
Candidate Starts for GAL1_66:
(26, 42130), (43, 42520), (44, 42529), (47, 42568),

Gene: Getalong_88 Start: 49593, Stop: 50024, Start Num: 25
Candidate Starts for Getalong_88:
(Start: 25 @49593 has 7 MA's), (37, 49917),

Gene: Idergollasper_118 Start: 68059, Stop: 67544, Start Num: 22
Candidate Starts for Idergollasper_118:
(Start: 22 @68059 has 30 MA's), (24, 68023), (Start: 25 @68014 has 7 MA's), (27, 68011), (29, 67975), (30, 67948), (31, 67939), (34, 67831), (35, 67777), (36, 67687), (38, 67654), (39, 67651), (40, 67633), (42, 67612), (46, 67570),

Gene: Imara_113 Start: 66342, Stop: 65827, Start Num: 22
Candidate Starts for Imara_113:
(Start: 22 @66342 has 30 MA's), (24, 66306), (Start: 25 @66297 has 7 MA's), (27, 66294), (28, 66288), (29, 66258), (30, 66231), (31, 66222), (34, 66114), (35, 66060), (38, 65937), (39, 65934), (40, 65916), (42, 65895), (46, 65853),

Gene: JangDynasty_112 Start: 66409, Stop: 65894, Start Num: 22
Candidate Starts for JangDynasty_112:
(Start: 22 @66409 has 30 MA's), (24, 66373), (Start: 25 @66364 has 7 MA's), (27, 66361), (29, 66325), (30, 66298), (31, 66289), (34, 66181), (35, 66127), (36, 66037), (38, 66004), (39, 66001), (40, 65983), (42, 65962), (46, 65920),

Gene: Kenna_80 Start: 46411, Stop: 46842, Start Num: 25
Candidate Starts for Kenna_80:
(Start: 25 @46411 has 7 MA's), (37, 46735),

Gene: KingPhillip3_112 Start: 66915, Stop: 66400, Start Num: 22

Candidate Starts for KingPhillip3_112:
(Start: 22 @66915 has 30 MA's), (24, 66879), (Start: 25 @66870 has 7 MA's), (27, 66867), (29, 66831), (30, 66804), (31, 66795), (34, 66687), (35, 66633), (36, 66543), (38, 66510), (39, 66507), (40, 66489), (42, 66468), (46, 66426),

Gene: Krili_116 Start: 67134, Stop: 66619, Start Num: 22
Candidate Starts for Krili_116:
(Start: 22 @67134 has 30 MA's), (24, 67098), (Start: 25 @67089 has 7 MA's), (27, 67086), (29, 67050), (30, 67023), (31, 67014), (34, 66906), (35, 66852), (38, 66729), (39, 66726), (40, 66708), (42, 66687), (46, 66645),

Gene: Lutum_86 Start: 47573, Stop: 48004, Start Num: 25
Candidate Starts for Lutum_86:
(Start: 25 @47573 has 7 MA's), (37, 47897),

Gene: MadKillah_117 Start: 66609, Stop: 66094, Start Num: 22
Candidate Starts for MadKillah_117:
(Start: 22 @66609 has 30 MA's), (24, 66573), (Start: 25 @66564 has 7 MA's), (27, 66561), (28, 66555), (29, 66525), (30, 66498), (31, 66489), (34, 66381), (35, 66327), (38, 66204), (39, 66201), (40, 66183), (42, 66162), (46, 66120),

Gene: Mori_114 Start: 67159, Stop: 66644, Start Num: 22
Candidate Starts for Mori_114:
(Start: 22 @67159 has 30 MA's), (24, 67123), (Start: 25 @67114 has 7 MA's), (27, 67111), (29, 67075), (30, 67048), (31, 67039), (34, 66931), (35, 66877), (38, 66754), (39, 66751), (40, 66733), (42, 66712), (46, 66670),

Gene: Murai_114 Start: 66977, Stop: 66462, Start Num: 22
Candidate Starts for Murai_114:
(Start: 22 @66977 has 30 MA's), (24, 66941), (Start: 25 @66932 has 7 MA's), (27, 66929), (28, 66923), (29, 66893), (30, 66866), (31, 66857), (34, 66749), (35, 66695), (38, 66572), (39, 66569), (40, 66551), (42, 66530), (46, 66488),

Gene: NiebruSaylor_114 Start: 66273, Stop: 65758, Start Num: 22
Candidate Starts for NiebruSaylor_114:
(Start: 22 @66273 has 30 MA's), (24, 66237), (Start: 25 @66228 has 7 MA's), (27, 66225), (29, 66189), (30, 66162), (31, 66153), (34, 66045), (35, 65991), (36, 65901), (38, 65868), (39, 65865), (40, 65847), (42, 65826), (46, 65784),

Gene: Phabuloso_92 Start: 49065, Stop: 49496, Start Num: 25
Candidate Starts for Phabuloso_92:
(Start: 25 @49065 has 7 MA's), (37, 49389),

Gene: Ryadel_119 Start: 68125, Stop: 67610, Start Num: 22
Candidate Starts for Ryadel_119:
(Start: 22 @68125 has 30 MA's), (24, 68089), (Start: 25 @68080 has 7 MA's), (27, 68077), (29, 68041), (30, 68014), (31, 68005), (34, 67897), (35, 67843), (38, 67720), (39, 67717), (40, 67699), (42, 67678), (45, 67648), (46, 67636),

Gene: SchoolBus_115 Start: 67224, Stop: 66709, Start Num: 22
Candidate Starts for SchoolBus_115:
(Start: 22 @67224 has 30 MA's), (24, 67188), (Start: 25 @67179 has 7 MA's), (27, 67176), (29, 67140), (30, 67113), (31, 67104), (34, 66996), (35, 66942), (36, 66852), (38, 66819), (39, 66816), (40, 66798),

(42, 66777), (46, 66735),

Gene: Schuy_114 Start: 66324, Stop: 65809, Start Num: 22
Candidate Starts for Schuy_114:
(Start: 22 @66324 has 30 MA's), (24, 66288), (Start: 25 @66279 has 7 MA's), (27, 66276), (28, 66270), (29, 66240), (30, 66213), (31, 66204), (34, 66096), (35, 66042), (38, 65919), (39, 65916), (40, 65898), (42, 65877), (46, 65835),

Gene: Shida_114 Start: 66885, Stop: 66370, Start Num: 22
Candidate Starts for Shida_114:
(Start: 22 @66885 has 30 MA's), (24, 66849), (Start: 25 @66840 has 7 MA's), (27, 66837), (29, 66801), (30, 66774), (31, 66765), (34, 66657), (35, 66603), (36, 66513), (38, 66480), (39, 66477), (40, 66459), (42, 66438), (46, 66396),

Gene: Smooch_112 Start: 66857, Stop: 66342, Start Num: 22
Candidate Starts for Smooch_112:
(Start: 22 @66857 has 30 MA's), (24, 66821), (Start: 25 @66812 has 7 MA's), (27, 66809), (28, 66803), (29, 66773), (30, 66746), (31, 66737), (34, 66629), (35, 66575), (38, 66452), (39, 66449), (40, 66431), (42, 66410), (46, 66368),

Gene: Spooky_87 Start: 48761, Stop: 49198, Start Num: 25
Candidate Starts for Spooky_87:
(20, 48704), (21, 48713), (23, 48734), (Start: 25 @48761 has 7 MA's), (33, 48926), (37, 49085), (41, 49121), (43, 49142),

Gene: TelAviv_111 Start: 66957, Stop: 66442, Start Num: 22
Candidate Starts for TelAviv_111:
(Start: 22 @66957 has 30 MA's), (24, 66921), (Start: 25 @66912 has 7 MA's), (27, 66909), (29, 66873), (30, 66846), (31, 66837), (34, 66729), (35, 66675), (36, 66585), (38, 66552), (39, 66549), (40, 66531), (42, 66510), (46, 66468),

Gene: Vagabond_113 Start: 66372, Stop: 65857, Start Num: 22
Candidate Starts for Vagabond_113:
(Start: 22 @66372 has 30 MA's), (24, 66336), (Start: 25 @66327 has 7 MA's), (27, 66324), (28, 66318), (29, 66288), (30, 66261), (31, 66252), (34, 66144), (35, 66090), (38, 65967), (39, 65964), (40, 65946), (42, 65925), (46, 65883),

Gene: Vorrps_114 Start: 67160, Stop: 66645, Start Num: 22
Candidate Starts for Vorrps_114:
(Start: 22 @67160 has 30 MA's), (24, 67124), (Start: 25 @67115 has 7 MA's), (27, 67112), (29, 67076), (30, 67049), (31, 67040), (34, 66932), (35, 66878), (38, 66755), (39, 66752), (40, 66734), (42, 66713), (46, 66671),

Gene: Wildflower_110 Start: 65042, Stop: 64368, Start Num: 17
Candidate Starts for Wildflower_110:
(Start: 17 @65042 has 2 MA's), (Start: 22 @64934 has 30 MA's), (24, 64898), (Start: 25 @64889 has 7 MA's), (27, 64886), (29, 64850), (30, 64823), (31, 64814), (32, 64709), (35, 64601), (38, 64478), (39, 64475), (40, 64457), (42, 64436), (46, 64394),

Gene: Winget_114 Start: 67009, Stop: 66494, Start Num: 22
Candidate Starts for Winget_114:
(Start: 22 @67009 has 30 MA's), (24, 66973), (Start: 25 @66964 has 7 MA's), (27, 66961), (28, 66955), (29, 66925), (30, 66898), (31, 66889), (34, 66781), (35, 66727), (38, 66604), (39, 66601), (40, 66583),

(42, 66562), (46, 66520),

Gene: Wogge42_110 Start: 66342, Stop: 65776, Start Num: 22
Candidate Starts for Wogge42_110:
(Start: 22 @66342 has 30 MA's), (24, 66306), (Start: 25 @66297 has 7 MA's), (27, 66294), (29, 66258), (30, 66231), (31, 66222), (32, 66117), (35, 66009), (38, 65886), (39, 65883), (40, 65865), (42, 65844), (46, 65802),

Gene: YoyoKar_111 Start: 66432, Stop: 65917, Start Num: 22
Candidate Starts for YoyoKar_111:
(Start: 22 @66432 has 30 MA's), (24, 66396), (Start: 25 @66387 has 7 MA's), (27, 66384), (29, 66348), (30, 66321), (31, 66312), (34, 66204), (35, 66150), (38, 66027), (39, 66024), (40, 66006), (42, 65985), (46, 65943),

Gene: YungJamal_111 Start: 65646, Stop: 65131, Start Num: 22
Candidate Starts for YungJamal_111:
(Start: 22 @65646 has 30 MA's), (24, 65610), (Start: 25 @65601 has 7 MA's), (27, 65598), (28, 65592), (29, 65562), (30, 65535), (31, 65526), (34, 65418), (35, 65364), (38, 65241), (39, 65238), (40, 65220), (42, 65199), (46, 65157),

Gene: Zakhe101_110 Start: 65243, Stop: 64728, Start Num: 22
Candidate Starts for Zakhe101_110:
(Start: 22 @65243 has 30 MA's), (24, 65207), (Start: 25 @65198 has 7 MA's), (27, 65195), (29, 65159), (30, 65132), (31, 65123), (35, 64961), (38, 64838), (39, 64835), (40, 64817), (42, 64796), (46, 64754),

Gene: Zebo_113 Start: 66792, Stop: 66226, Start Num: 22
Candidate Starts for Zebo_113:
(Start: 22 @66792 has 30 MA's), (24, 66756), (Start: 25 @66747 has 7 MA's), (27, 66744), (29, 66708), (30, 66681), (31, 66672), (32, 66567), (35, 66459), (38, 66336), (39, 66333), (40, 66315), (42, 66294), (46, 66252),