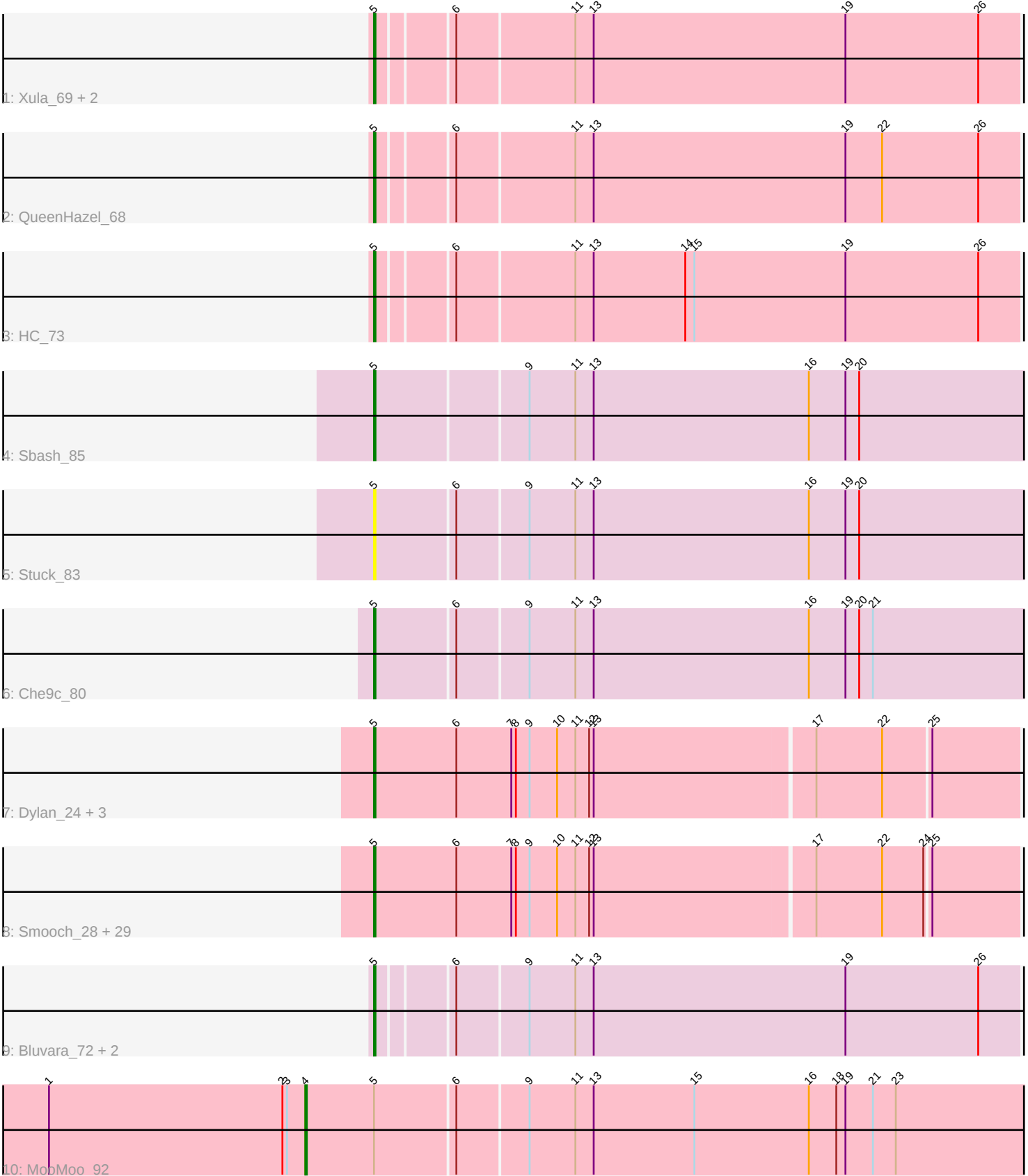


Pham 280571



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 280571 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280571 has 46 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Xula_69, PaintedDog_71, Babsiella_73
- Track 2 : QueenHazel_68
- Track 3 : HC_73
- Track 4 : Sbash_85
- Track 5 : Stuck_83
- Track 6 : Che9c_80
- Track 7 : Dylan_24, Zakhe101_25, Corndog_27, Bora_23
- Track 8 : Smooch_28, Idergollasper_24, Vorrips_25, JangDynasty_24, Imara_23, Ashwin_26, Mori_25, Ryadel_27, Wildflower_25, FoulBall_24, Alkhayr_25, MadKillah_26, Vagabond_25, TelAviv_22, SchoolBus_24, Winget_25, Shida_25, Zebo_24, Firecracker_25, Wogge42_24, Catdawg_24, Murai_25, KingPhillip3_22, Familton_25, Krili_25, YungJamal_27, YoyoKar_23, Schuy_26, NiebruSaylor_25, Blessica_25
- Track 9 : Bluvara_72, Island3_71, Brujita_69
- Track 10 : MooMoo_92

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

The start number called the most often in the published annotations is 5, it was called in 38 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_25, Ashwin_26, Babsiella_73, Blessica_25, Bluvara_72, Bora_23, Brujita_69, Catdawg_24, Che9c_80, Corndog_27, Dylan_24, Familton_25, Firecracker_25, FoulBall_24, HC_73, Idergollasper_24, Imara_23, Island3_71, JangDynasty_24, KingPhillip3_22, Krili_25, MadKillah_26, Mori_25, Murai_25, NiebruSaylor_25, PaintedDog_71, QueenHazel_68, Ryadel_27, Sbash_85, SchoolBus_24, Schuy_26, Shida_25, Smooch_28, Stuck_83, TelAviv_22, Vagabond_25, Vorrips_25, Wildflower_25, Winget_25, Wogge42_24, Xula_69, YoyoKar_23, YungJamal_27, Zakhe101_25, Zebo_24,

Genes that have the "Most Annotated" start but do not call it:

- MooMoo_92,

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

-

Summary by start number:

Start 4:

- Found in 1 of 46 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_92 (singleton),

Start 5:

- Found in 46 of 46 (100.0%) of genes in pham
- Manual Annotations of this start: 38 of 39
- Called 97.8% of time when present
- Phage (with cluster) where this start called: Alkhayr_25 (O), Ashwin_26 (O), Babsiella_73 (I1), Blessica_25 (O), Bluvira_72 (UNK), Bora_23 (O), Brujita_69 (I1), Catdawg_24 (O), Che9c_80 (I2), Corndog_27 (O), Dylan_24 (O), Familton_25 (O), Firecracker_25 (O), FoulBall_24 (O), HC_73 (I1), Idergollasper_24 (O), Imara_23 (O), Island3_71 (I1), JangDynasty_24 (O), KingPhillip3_22 (O), Krili_25 (O), MadKillah_26 (O), Mori_25 (O), Murai_25 (O), NiebruSaylor_25 (O), PaintedDog_71 (I1), QueenHazel_68 (I1), Ryadel_27 (O), Sbash_85 (I2), SchoolBus_24 (O), Schuy_26 (O), Shida_25 (O), Smooch_28 (O), Stuck_83 (I2), TelAviv_22 (O), Vagabond_25 (O), Vorrrps_25 (O), Wildflower_25 (O), Winget_25 (O), Wogge42_24 (O), Xula_69 (I1), YoyoKar_23 (O), YungJamal_27 (O), Zakhe101_25 (O), Zebo_24 (O),

Summary by clusters:

There are 5 clusters represented in this pham: I1, singleton, UNK, I2, O,

Info for manual annotations of cluster I1:

- Start number 5 was manually annotated 6 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 5 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster O:

- Start number 5 was manually annotated 30 times for cluster O.

Gene Information:

Gene: Alkhayr_25 Start: 11416, Stop: 11850, Start Num: 5

Candidate Starts for Alkhayr_25:

(Start: 5 @11416 has 38 MA's), (6, 11470), (7, 11506), (8, 11509), (9, 11518), (10, 11536), (11, 11548), (12, 11557), (13, 11560), (17, 11701), (22, 11743), (24, 11770), (25, 11773),

Gene: Ashwin_26 Start: 11636, Stop: 12070, Start Num: 5

Candidate Starts for Ashwin_26:

(Start: 5 @11636 has 38 MA's), (6, 11690), (7, 11726), (8, 11729), (9, 11738), (10, 11756), (11, 11768), (12, 11777), (13, 11780), (17, 11921), (22, 11963), (24, 11990), (25, 11993),

Gene: Babsiella_73 Start: 45112, Stop: 45540, Start Num: 5

Candidate Starts for Babsiella_73:

(Start: 5 @45112 has 38 MA's), (6, 45157), (11, 45232), (13, 45244), (19, 45409), (26, 45496),

Gene: Blessica_25 Start: 11439, Stop: 11873, Start Num: 5

Candidate Starts for Blessica_25:

(Start: 5 @11439 has 38 MA's), (6, 11493), (7, 11529), (8, 11532), (9, 11541), (10, 11559), (11, 11571), (12, 11580), (13, 11583), (17, 11724), (22, 11766), (24, 11793), (25, 11796),

Gene: Bluvara_72 Start: 46741, Stop: 47169, Start Num: 5

Candidate Starts for Bluvara_72:

(Start: 5 @46741 has 38 MA's), (6, 46786), (9, 46831), (11, 46861), (13, 46873), (19, 47038), (26, 47125),

Gene: Bora_23 Start: 11089, Stop: 11523, Start Num: 5

Candidate Starts for Bora_23:

(Start: 5 @11089 has 38 MA's), (6, 11143), (7, 11179), (8, 11182), (9, 11191), (10, 11209), (11, 11221), (12, 11230), (13, 11233), (17, 11374), (22, 11416), (25, 11446),

Gene: Brujita_69 Start: 44086, Stop: 44514, Start Num: 5

Candidate Starts for Brujita_69:

(Start: 5 @44086 has 38 MA's), (6, 44131), (9, 44176), (11, 44206), (13, 44218), (19, 44383), (26, 44470),

Gene: Catdawg_24 Start: 11045, Stop: 11479, Start Num: 5

Candidate Starts for Catdawg_24:

(Start: 5 @11045 has 38 MA's), (6, 11099), (7, 11135), (8, 11138), (9, 11147), (10, 11165), (11, 11177), (12, 11186), (13, 11189), (17, 11330), (22, 11372), (24, 11399), (25, 11402),

Gene: Che9c_80 Start: 53858, Stop: 54301, Start Num: 5

Candidate Starts for Che9c_80:

(Start: 5 @53858 has 38 MA's), (6, 53909), (9, 53954), (11, 53984), (13, 53996), (16, 54137), (19, 54161), (20, 54170), (21, 54179),

Gene: Corndog_27 Start: 11715, Stop: 12149, Start Num: 5

Candidate Starts for Corndog_27:

(Start: 5 @11715 has 38 MA's), (6, 11769), (7, 11805), (8, 11808), (9, 11817), (10, 11835), (11, 11847), (12, 11856), (13, 11859), (17, 12000), (22, 12042), (25, 12072),

Gene: Dylan_24 Start: 11441, Stop: 11875, Start Num: 5

Candidate Starts for Dylan_24:

(Start: 5 @11441 has 38 MA's), (6, 11495), (7, 11531), (8, 11534), (9, 11543), (10, 11561), (11, 11573), (12, 11582), (13, 11585), (17, 11726), (22, 11768), (25, 11798),

Gene: Familton_25 Start: 11046, Stop: 11480, Start Num: 5

Candidate Starts for Familton_25:

(Start: 5 @11046 has 38 MA's), (6, 11100), (7, 11136), (8, 11139), (9, 11148), (10, 11166), (11, 11178), (12, 11187), (13, 11190), (17, 11331), (22, 11373), (24, 11400), (25, 11403),

Gene: Firecracker_25 Start: 11339, Stop: 11773, Start Num: 5

Candidate Starts for Firecracker_25:

(Start: 5 @11339 has 38 MA's), (6, 11393), (7, 11429), (8, 11432), (9, 11441), (10, 11459), (11, 11471), (12, 11480), (13, 11483), (17, 11624), (22, 11666), (24, 11693), (25, 11696),

Gene: FoulBall_24 Start: 11046, Stop: 11480, Start Num: 5

Candidate Starts for FoulBall_24:

(Start: 5 @11046 has 38 MA's), (6, 11100), (7, 11136), (8, 11139), (9, 11148), (10, 11166), (11, 11178), (12, 11187), (13, 11190), (17, 11331), (22, 11373), (24, 11400), (25, 11403),

Gene: HC_73 Start: 43335, Stop: 43763, Start Num: 5

Candidate Starts for HC_73:

(Start: 5 @43335 has 38 MA's), (6, 43380), (11, 43455), (13, 43467), (14, 43527), (15, 43533), (19, 43632), (26, 43719),

Gene: Idergollasper_24 Start: 11046, Stop: 11480, Start Num: 5

Candidate Starts for Idergollasper_24:

(Start: 5 @11046 has 38 MA's), (6, 11100), (7, 11136), (8, 11139), (9, 11148), (10, 11166), (11, 11178), (12, 11187), (13, 11190), (17, 11331), (22, 11373), (24, 11400), (25, 11403),

Gene: Imara_23 Start: 11299, Stop: 11733, Start Num: 5

Candidate Starts for Imara_23:

(Start: 5 @11299 has 38 MA's), (6, 11353), (7, 11389), (8, 11392), (9, 11401), (10, 11419), (11, 11431), (12, 11440), (13, 11443), (17, 11584), (22, 11626), (24, 11653), (25, 11656),

Gene: Island3_71 Start: 44316, Stop: 44744, Start Num: 5

Candidate Starts for Island3_71:

(Start: 5 @44316 has 38 MA's), (6, 44361), (9, 44406), (11, 44436), (13, 44448), (19, 44613), (26, 44700),

Gene: JangDynasty_24 Start: 11135, Stop: 11569, Start Num: 5

Candidate Starts for JangDynasty_24:

(Start: 5 @11135 has 38 MA's), (6, 11189), (7, 11225), (8, 11228), (9, 11237), (10, 11255), (11, 11267), (12, 11276), (13, 11279), (17, 11420), (22, 11462), (24, 11489), (25, 11492),

Gene: KingPhillip3_22 Start: 11046, Stop: 11480, Start Num: 5

Candidate Starts for KingPhillip3_22:

(Start: 5 @11046 has 38 MA's), (6, 11100), (7, 11136), (8, 11139), (9, 11148), (10, 11166), (11, 11178), (12, 11187), (13, 11190), (17, 11331), (22, 11373), (24, 11400), (25, 11403),

Gene: Krili_25 Start: 11405, Stop: 11839, Start Num: 5

Candidate Starts for Krili_25:

(Start: 5 @11405 has 38 MA's), (6, 11459), (7, 11495), (8, 11498), (9, 11507), (10, 11525), (11, 11537), (12, 11546), (13, 11549), (17, 11690), (22, 11732), (24, 11759), (25, 11762),

Gene: MadKillah_26 Start: 11438, Stop: 11872, Start Num: 5

Candidate Starts for MadKillah_26:

(Start: 5 @11438 has 38 MA's), (6, 11492), (7, 11528), (8, 11531), (9, 11540), (10, 11558), (11, 11570), (12, 11579), (13, 11582), (17, 11723), (22, 11765), (24, 11792), (25, 11795),

Gene: MooMoo_92 Start: 51379, Stop: 51864, Start Num: 4

Candidate Starts for MooMoo_92:

(1, 51211), (2, 51364), (3, 51367), (Start: 4 @51379 has 1 MA's), (Start: 5 @51424 has 38 MA's), (6, 51475), (9, 51520), (11, 51550), (13, 51562), (15, 51628), (16, 51703), (18, 51721), (19, 51727), (21, 51745), (23, 51760),

Gene: Mori_25 Start: 11276, Stop: 11710, Start Num: 5

Candidate Starts for Mori_25:

(Start: 5 @11276 has 38 MA's), (6, 11330), (7, 11366), (8, 11369), (9, 11378), (10, 11396), (11, 11408), (12, 11417), (13, 11420), (17, 11561), (22, 11603), (24, 11630), (25, 11633),

Gene: Murai_25 Start: 11277, Stop: 11711, Start Num: 5

Candidate Starts for Murai_25:

(Start: 5 @11277 has 38 MA's), (6, 11331), (7, 11367), (8, 11370), (9, 11379), (10, 11397), (11, 11409), (12, 11418), (13, 11421), (17, 11562), (22, 11604), (24, 11631), (25, 11634),

Gene: NiebruSaylor_25 Start: 11277, Stop: 11711, Start Num: 5

Candidate Starts for NiebruSaylor_25:

(Start: 5 @11277 has 38 MA's), (6, 11331), (7, 11367), (8, 11370), (9, 11379), (10, 11397), (11, 11409), (12, 11418), (13, 11421), (17, 11562), (22, 11604), (24, 11631), (25, 11634),

Gene: PaintedDog_71 Start: 45517, Stop: 45945, Start Num: 5

Candidate Starts for PaintedDog_71:

(Start: 5 @45517 has 38 MA's), (6, 45562), (11, 45637), (13, 45649), (19, 45814), (26, 45901),

Gene: QueenHazel_68 Start: 44336, Stop: 44764, Start Num: 5

Candidate Starts for QueenHazel_68:

(Start: 5 @44336 has 38 MA's), (6, 44381), (11, 44456), (13, 44468), (19, 44633), (22, 44657), (26, 44720),

Gene: Ryadel_27 Start: 11859, Stop: 12293, Start Num: 5

Candidate Starts for Ryadel_27:

(Start: 5 @11859 has 38 MA's), (6, 11913), (7, 11949), (8, 11952), (9, 11961), (10, 11979), (11, 11991), (12, 12000), (13, 12003), (17, 12144), (22, 12186), (24, 12213), (25, 12216),

Gene: Sbash_85 Start: 52628, Stop: 53071, Start Num: 5

Candidate Starts for Sbash_85:

(Start: 5 @52628 has 38 MA's), (9, 52724), (11, 52754), (13, 52766), (16, 52907), (19, 52931), (20, 52940),

Gene: SchoolBus_24 Start: 11046, Stop: 11480, Start Num: 5

Candidate Starts for SchoolBus_24:

(Start: 5 @11046 has 38 MA's), (6, 11100), (7, 11136), (8, 11139), (9, 11148), (10, 11166), (11, 11178), (12, 11187), (13, 11190), (17, 11331), (22, 11373), (24, 11400), (25, 11403),

Gene: Schuy_26 Start: 11438, Stop: 11872, Start Num: 5

Candidate Starts for Schuy_26:

(Start: 5 @11438 has 38 MA's), (6, 11492), (7, 11528), (8, 11531), (9, 11540), (10, 11558), (11, 11570), (12, 11579), (13, 11582), (17, 11723), (22, 11765), (24, 11792), (25, 11795),

Gene: Shida_25 Start: 11343, Stop: 11777, Start Num: 5

Candidate Starts for Shida_25:

(Start: 5 @11343 has 38 MA's), (6, 11397), (7, 11433), (8, 11436), (9, 11445), (10, 11463), (11, 11475), (12, 11484), (13, 11487), (17, 11628), (22, 11670), (24, 11697), (25, 11700),

Gene: Smooch_28 Start: 12792, Stop: 13226, Start Num: 5

Candidate Starts for Smooch_28:

(Start: 5 @12792 has 38 MA's), (6, 12846), (7, 12882), (8, 12885), (9, 12894), (10, 12912), (11, 12924), (12, 12933), (13, 12936), (17, 13077), (22, 13119), (24, 13146), (25, 13149),

Gene: Stuck_83 Start: 51938, Stop: 52381, Start Num: 5

Candidate Starts for Stuck_83:

(Start: 5 @51938 has 38 MA's), (6, 51989), (9, 52034), (11, 52064), (13, 52076), (16, 52217), (19, 52241), (20, 52250),

Gene: TelAviv_22 Start: 11043, Stop: 11477, Start Num: 5

Candidate Starts for TelAviv_22:

(Start: 5 @11043 has 38 MA's), (6, 11097), (7, 11133), (8, 11136), (9, 11145), (10, 11163), (11, 11175), (12, 11184), (13, 11187), (17, 11328), (22, 11370), (24, 11397), (25, 11400),

Gene: Vagabond_25 Start: 11320, Stop: 11754, Start Num: 5

Candidate Starts for Vagabond_25:

(Start: 5 @11320 has 38 MA's), (6, 11374), (7, 11410), (8, 11413), (9, 11422), (10, 11440), (11, 11452), (12, 11461), (13, 11464), (17, 11605), (22, 11647), (24, 11674), (25, 11677),

Gene: Vorrrps_25 Start: 11277, Stop: 11711, Start Num: 5

Candidate Starts for Vorrrps_25:

(Start: 5 @11277 has 38 MA's), (6, 11331), (7, 11367), (8, 11370), (9, 11379), (10, 11397), (11, 11409), (12, 11418), (13, 11421), (17, 11562), (22, 11604), (24, 11631), (25, 11634),

Gene: Wildflower_25 Start: 11300, Stop: 11734, Start Num: 5

Candidate Starts for Wildflower_25:

(Start: 5 @11300 has 38 MA's), (6, 11354), (7, 11390), (8, 11393), (9, 11402), (10, 11420), (11, 11432), (12, 11441), (13, 11444), (17, 11585), (22, 11627), (24, 11654), (25, 11657),

Gene: Winget_25 Start: 11319, Stop: 11753, Start Num: 5

Candidate Starts for Winget_25:

(Start: 5 @11319 has 38 MA's), (6, 11373), (7, 11409), (8, 11412), (9, 11421), (10, 11439), (11, 11451), (12, 11460), (13, 11463), (17, 11604), (22, 11646), (24, 11673), (25, 11676),

Gene: Wogge42_24 Start: 11408, Stop: 11842, Start Num: 5

Candidate Starts for Wogge42_24:

(Start: 5 @11408 has 38 MA's), (6, 11462), (7, 11498), (8, 11501), (9, 11510), (10, 11528), (11, 11540), (12, 11549), (13, 11552), (17, 11693), (22, 11735), (24, 11762), (25, 11765),

Gene: Xula_69 Start: 44823, Stop: 45251, Start Num: 5

Candidate Starts for Xula_69:

(Start: 5 @44823 has 38 MA's), (6, 44868), (11, 44943), (13, 44955), (19, 45120), (26, 45207),

Gene: YoyoKar_23 Start: 11047, Stop: 11481, Start Num: 5

Candidate Starts for YoyoKar_23:

(Start: 5 @11047 has 38 MA's), (6, 11101), (7, 11137), (8, 11140), (9, 11149), (10, 11167), (11, 11179), (12, 11188), (13, 11191), (17, 11332), (22, 11374), (24, 11401), (25, 11404),

Gene: YungJamal_27 Start: 11595, Stop: 12029, Start Num: 5

Candidate Starts for YungJamal_27:

(Start: 5 @11595 has 38 MA's), (6, 11649), (7, 11685), (8, 11688), (9, 11697), (10, 11715), (11, 11727), (12, 11736), (13, 11739), (17, 11880), (22, 11922), (24, 11949), (25, 11952),

Gene: Zakhe101_25 Start: 11445, Stop: 11879, Start Num: 5

Candidate Starts for Zakhe101_25:

(Start: 5 @11445 has 38 MA's), (6, 11499), (7, 11535), (8, 11538), (9, 11547), (10, 11565), (11, 11577), (12, 11586), (13, 11589), (17, 11730), (22, 11772), (25, 11802),

Gene: Zebo_24 Start: 11046, Stop: 11480, Start Num: 5

Candidate Starts for Zebo_24:

(Start: 5 @11046 has 38 MA's), (6, 11100), (7, 11136), (8, 11139), (9, 11148), (10, 11166), (11, 11178), (12, 11187), (13, 11190), (17, 11331), (22, 11373), (24, 11400), (25, 11403),