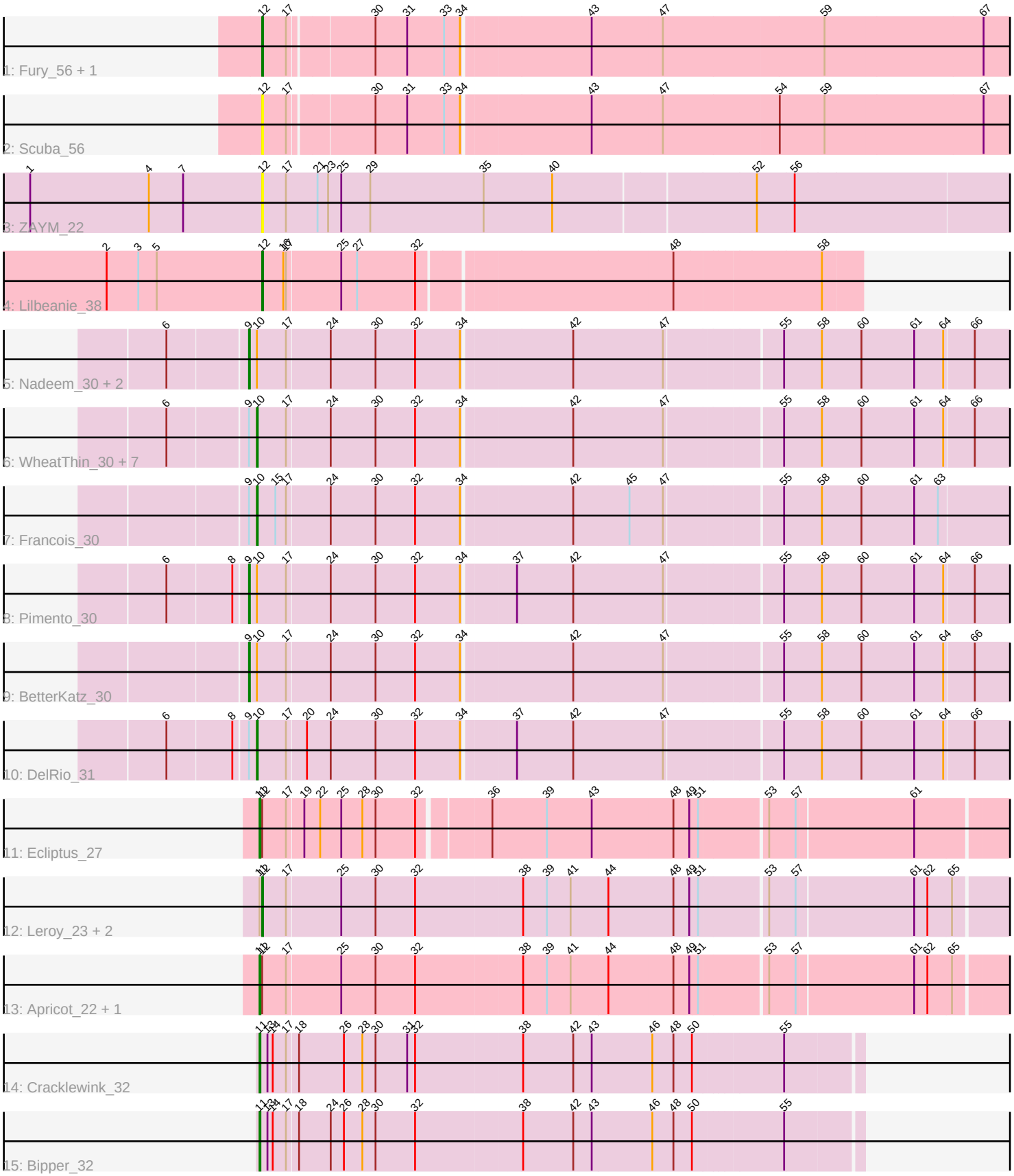
Pham 221681


1: Fury_56 + 1
2: Scuba_56
3: ZAYM_22
4: Lilbeanie_38
5: Nadeem_30 + 2
6: WheatThin_30 + 7
7: Francois_30
8: Pimento_30
9: BetterKatz_30
10: DelRio_31
11: Ecliptus_27
12: Leroy_23 + 2
13: Apricot_22 + 1
14: Cracklewink_32
15: Bipper_32

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 221681 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221681 has 28 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Fury_56, Pleakley_56
• Track 2 : Scuba_56
• Track 3 : ZAYM_22
• Track 4 : Lilbeanie_38
• Track 5 : Nadeem_30, Brylie_30, NancyRae_30
• Track 6 : WheatThin_30, Chop_30, Bock_30, Parada_30, Hamood_30, Mulch_30, Ayotoya_30, GrandSlam_30
• Track 7 : Francois_30
• Track 8 : Pimento_30
• Track 9 : BetterKatz_30
• Track 10 : DelRio_31
• Track 11 : Ecliptus_27
• Track 12 : Leroy_23, Phistory_24, Crater_21
• Track 13 : Apricot_22, Horus_23
• Track 14 : Cracklewink_32
• Track 15 : Bipper_32

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

The start number called the most often in the published annotations is 10, it was called in 10 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ayotoya_30, Bock_30, Chop_30, DelRio_31, Francois_30, GrandSlam_30, Hamood_30, Mulch_30, Parada_30, WheatThin_30,

Genes that have the "Most Annotated" start but do not call it:
• BetterKatz_30, Brylie_30, Nadeem_30, NancyRae_30, Pimento_30,

Genes that do not have the "Most Annotated" start:
• Apricot_22, Bipper_32, Cracklewink_32, Crater_21, Ecliptus_27, Fury_56, Horus_23, Leroy_23, Lilbeanie_38, Phistory_24, Pleakley_56, Scuba_56, ZAYM_22,

Summary by start number:

Start 9:
• Found in 15 of 28 (53.6%) of genes in pham
• Manual Annotations of this start: 5 of 26
• Called 33.3% of time when present
• Phage (with cluster) where this start called: BetterKatz_30 (DI), Brylie_30 (DI), Nadeem_30 (DI), NancyRae_30 (DI), Pimento_30 (DI),

Start 10:
• Found in 15 of 28 (53.6%) of genes in pham
• Manual Annotations of this start: 10 of 26
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Ayotoya_30 (DI), Bock_30 (DI), Chop_30 (DI), DelRio_31 (DI), Francois_30 (DI), GrandSlam_30 (DI), Hamood_30 (DI), Mulch_30 (DI), Parada_30 (DI), WheatThin_30 (DI),

Start 11:
• Found in 8 of 28 (28.6%) of genes in pham
• Manual Annotations of this start: 5 of 26
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Apricot_22 (DN3), Bipper_32 (Y), Cracklewink_32 (Y), Ecliptus_27 (DN), Horus_23 (DN1),

Start 12:
• Found in 11 of 28 (39.3%) of genes in pham
• Manual Annotations of this start: 6 of 26
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Crater_21 (DN3), Fury_56 (CR5), Leroy_23 (DN1), Lilbeanie_38 (DE5), Phistory_24 (DN1), Pleakley_56 (CR5), Scuba_56 (CR5), ZAYM_22 (DB),

Summary by clusters:

There are 8 clusters represented in this pham: DN, CR5, DI, DB, DE5, DN1, DN3, Y,

Info for manual annotations of cluster CR5:
•Start number 12 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster DE5:
•Start number 12 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DI:
•Start number 9 was manually annotated 5 times for cluster DI.
•Start number 10 was manually annotated 10 times for cluster DI.

Info for manual annotations of cluster DN:
•Start number 11 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 11 was manually annotated 1 time for cluster DN1.
•Start number 12 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 11 was manually annotated 1 time for cluster DN3.
•Start number 12 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster Y:
•Start number 11 was manually annotated 2 times for cluster Y.

Gene Information:

Gene: Apricot_22 Start: 18919, Stop: 19752, Start Num: 11
Candidate Starts for Apricot_22:
(Start: 11 @18919 has 5 MA's), (Start: 12 @18922 has 6 MA's), (17, 18949), (25, 19009), (30, 19048), (32, 19093), (38, 19207), (39, 19234), (41, 19261), (44, 19303), (48, 19375), (49, 19393), (51, 19402), (53, 19474), (57, 19504), (61, 19633), (62, 19648), (65, 19675),

Gene: Ayotoya_30 Start: 26417, Stop: 27229, Start Num: 10
Candidate Starts for Ayotoya_30:
(6, 26321), (Start: 9 @26408 has 5 MA's), (Start: 10 @26417 has 10 MA's), (17, 26450), (24, 26498), (30, 26549), (32, 26594), (34, 26645), (42, 26759), (47, 26858), (55, 26981), (58, 27020), (60, 27065), (61, 27125), (64, 27158), (66, 27191),

Gene: BetterKatz_30 Start: 25881, Stop: 26702, Start Num: 9
Candidate Starts for BetterKatz_30:
(Start: 9 @25881 has 5 MA's), (Start: 10 @25890 has 10 MA's), (17, 25923), (24, 25971), (30, 26022), (32, 26067), (34, 26118), (42, 26232), (47, 26331), (55, 26454), (58, 26493), (60, 26538), (61, 26598), (64, 26631), (66, 26664),

Gene: Bipper_32 Start: 28349, Stop: 29002, Start Num: 11
Candidate Starts for Bipper_32:
(Start: 11 @28349 has 5 MA's), (13, 28358), (14, 28364), (17, 28379), (18, 28391), (24, 28427), (26, 28442), (28, 28463), (30, 28478), (32, 28523), (38, 28637), (42, 28694), (43, 28715), (46, 28781), (48, 28805), (50, 28826), (55, 28922),

Gene: Bock_30 Start: 25640, Stop: 26452, Start Num: 10
Candidate Starts for Bock_30:
(6, 25544), (Start: 9 @25631 has 5 MA's), (Start: 10 @25640 has 10 MA's), (17, 25673), (24, 25721), (30, 25772), (32, 25817), (34, 25868), (42, 25982), (47, 26081), (55, 26204), (58, 26243), (60, 26288), (61, 26348), (64, 26381), (66, 26414),

Gene: Brylie_30 Start: 25619, Stop: 26440, Start Num: 9
Candidate Starts for Brylie_30:
(6, 25532), (Start: 9 @25619 has 5 MA's), (Start: 10 @25628 has 10 MA's), (17, 25661), (24, 25709), (30, 25760), (32, 25805), (34, 25856), (42, 25970), (47, 26069), (55, 26192), (58, 26231), (60, 26276), (61, 26336), (64, 26369), (66, 26402),

Gene: Chop_30 Start: 26165, Stop: 26977, Start Num: 10
Candidate Starts for Chop_30:
(6, 26069), (Start: 9 @26156 has 5 MA's), (Start: 10 @26165 has 10 MA's), (17, 26198), (24, 26246), (30, 26297), (32, 26342), (34, 26393), (42, 26507), (47, 26606), (55, 26729), (58, 26768), (60, 26813), (61, 26873), (64, 26906), (66, 26939),

Gene: Cracklewink_32 Start: 28349, Stop: 29002, Start Num: 11
Candidate Starts for Cracklewink_32:
(Start: 11 @28349 has 5 MA's), (13, 28358), (14, 28364), (17, 28379), (18, 28391), (26, 28442), (28, 28463), (30, 28478), (31, 28514), (32, 28523), (38, 28637), (42, 28694), (43, 28715), (46, 28781), (48, 28805), (50, 28826), (55, 28922),

Gene: Crater_21 Start: 18922, Stop: 19752, Start Num: 12
Candidate Starts for Crater_21:
(Start: 11 @18919 has 5 MA's), (Start: 12 @18922 has 6 MA's), (17, 18949), (25, 19009), (30, 19048), (32, 19093), (38, 19207), (39, 19234), (41, 19261), (44, 19303), (48, 19375), (49, 19393), (51, 19402), (53, 19474), (57, 19504), (61, 19633), (62, 19648), (65, 19675),

Gene: DelRio_31 Start: 26636, Stop: 27448, Start Num: 10
Candidate Starts for DelRio_31:
(6, 26540), (8, 26612), (Start: 9 @26627 has 5 MA's), (Start: 10 @26636 has 10 MA's), (17, 26669), (20, 26690), (24, 26717), (30, 26768), (32, 26813), (34, 26864), (37, 26915), (42, 26978), (47, 27077), (55, 27200), (58, 27239), (60, 27284), (61, 27344), (64, 27377), (66, 27410),

Gene: Ecliptus_27 Start: 21245, Stop: 22066, Start Num: 11
Candidate Starts for Ecliptus_27:
(Start: 11 @21245 has 5 MA's), (Start: 12 @21248 has 6 MA's), (17, 21275), (19, 21293), (22, 21311), (25, 21335), (28, 21359), (30, 21374), (32, 21419), (36, 21491), (39, 21548), (43, 21599), (48, 21689), (49, 21707), (51, 21716), (53, 21788), (57, 21818), (61, 21947),

Gene: Francois_30 Start: 25654, Stop: 26466, Start Num: 10
Candidate Starts for Francois_30:
(Start: 9 @25645 has 5 MA's), (Start: 10 @25654 has 10 MA's), (15, 25675), (17, 25687), (24, 25735), (30, 25786), (32, 25831), (34, 25882), (42, 25996), (45, 26059), (47, 26095), (55, 26218), (58, 26257), (60, 26302), (61, 26362), (63, 26389),

Gene: Fury_56 Start: 37521, Stop: 38534, Start Num: 12
Candidate Starts for Fury_56:
(Start: 12 @37521 has 6 MA's), (17, 37548), (30, 37638), (31, 37674), (33, 37716), (34, 37734), (43, 37869), (47, 37947), (59, 38127), (67, 38304),

Gene: GrandSlam_30 Start: 26165, Stop: 26977, Start Num: 10
Candidate Starts for GrandSlam_30:
(6, 26069), (Start: 9 @26156 has 5 MA's), (Start: 10 @26165 has 10 MA's), (17, 26198), (24, 26246), (30, 26297), (32, 26342), (34, 26393), (42, 26507), (47, 26606), (55, 26729), (58, 26768), (60, 26813), (61, 26873), (64, 26906), (66, 26939),

Gene: Hamood_30 Start: 26165, Stop: 26977, Start Num: 10
Candidate Starts for Hamood_30:
(6, 26069), (Start: 9 @26156 has 5 MA's), (Start: 10 @26165 has 10 MA's), (17, 26198), (24, 26246), (30, 26297), (32, 26342), (34, 26393), (42, 26507), (47, 26606), (55, 26729), (58, 26768), (60, 26813), (61, 26873), (64, 26906), (66, 26939),

Gene: Horus_23 Start: 19383, Stop: 20216, Start Num: 11
Candidate Starts for Horus_23:
(Start: 11 @19383 has 5 MA's), (Start: 12 @19386 has 6 MA's), (17, 19413), (25, 19473), (30, 19512), (32, 19557), (38, 19671), (39, 19698), (41, 19725), (44, 19767), (48, 19839), (49, 19857), (51, 19866), (53, 19938), (57, 19968), (61, 20097), (62, 20112), (65, 20139),

Gene: Leroy_23 Start: 19387, Stop: 20217, Start Num: 12
Candidate Starts for Leroy_23:
(Start: 11 @19384 has 5 MA's), (Start: 12 @19387 has 6 MA's), (17, 19414), (25, 19474), (30, 19513), (32, 19558), (38, 19672), (39, 19699), (41, 19726), (44, 19768), (48, 19840), (49, 19858), (51, 19867), (53, 19939), (57, 19969), (61, 20098), (62, 20113), (65, 20140),

Gene: Lilbeanie_38 Start: 31874, Stop: 32515, Start Num: 12
Candidate Starts for Lilbeanie_38:
(2, 31697), (3, 31733), (5, 31754), (Start: 12 @31874 has 6 MA's), (16, 31898), (17, 31901), (25, 31961), (27, 31979), (32, 32045), (48, 32315), (58, 32471),

Gene: Mulch_30 Start: 25628, Stop: 26440, Start Num: 10
Candidate Starts for Mulch_30:
(6, 25532), (Start: 9 @25619 has 5 MA's), (Start: 10 @25628 has 10 MA's), (17, 25661), (24, 25709), (30, 25760), (32, 25805), (34, 25856), (42, 25970), (47, 26069), (55, 26192), (58, 26231), (60, 26276), (61, 26336), (64, 26369), (66, 26402),

Gene: Nadeem_30 Start: 25619, Stop: 26440, Start Num: 9
Candidate Starts for Nadeem_30:
(6, 25532), (Start: 9 @25619 has 5 MA's), (Start: 10 @25628 has 10 MA's), (17, 25661), (24, 25709), (30, 25760), (32, 25805), (34, 25856), (42, 25970), (47, 26069), (55, 26192), (58, 26231), (60, 26276), (61, 26336), (64, 26369), (66, 26402),

Gene: NancyRae_30 Start: 25628, Stop: 26449, Start Num: 9
Candidate Starts for NancyRae_30:
(6, 25541), (Start: 9 @25628 has 5 MA's), (Start: 10 @25637 has 10 MA's), (17, 25670), (24, 25718), (30, 25769), (32, 25814), (34, 25865), (42, 25979), (47, 26078), (55, 26201), (58, 26240), (60, 26285), (61, 26345), (64, 26378), (66, 26411),

Gene: Parada_30 Start: 25628, Stop: 26440, Start Num: 10
Candidate Starts for Parada_30:
(6, 25532), (Start: 9 @25619 has 5 MA's), (Start: 10 @25628 has 10 MA's), (17, 25661), (24, 25709), (30, 25760), (32, 25805), (34, 25856), (42, 25970), (47, 26069), (55, 26192), (58, 26231), (60, 26276), (61, 26336), (64, 26369), (66, 26402),

Gene: Phistory_24 Start: 20152, Stop: 20982, Start Num: 12
Candidate Starts for Phistory_24:
(Start: 11 @20149 has 5 MA's), (Start: 12 @20152 has 6 MA's), (17, 20179), (25, 20239), (30, 20278), (32, 20323), (38, 20437), (39, 20464), (41, 20491), (44, 20533), (48, 20605), (49, 20623), (51, 20632), (53, 20704), (57, 20734), (61, 20863), (62, 20878), (65, 20905),

Gene: Pimento_30 Start: 25097, Stop: 25918, Start Num: 9
Candidate Starts for Pimento_30:
(6, 25010), (8, 25082), (Start: 9 @25097 has 5 MA's), (Start: 10 @25106 has 10 MA's), (17, 25139), (24, 25187), (30, 25238), (32, 25283), (34, 25334), (37, 25385), (42, 25448), (47, 25547), (55, 25670), (58, 25709), (60, 25754), (61, 25814), (64, 25847), (66, 25880),

Gene: Pleakley_56 Start: 37522, Stop: 38535, Start Num: 12
Candidate Starts for Pleakley_56:
(Start: 12 @37522 has 6 MA's), (17, 37549), (30, 37639), (31, 37675), (33, 37717), (34, 37735), (43, 37870), (47, 37948), (59, 38128), (67, 38305),

Gene: Scuba_56 Start: 37596, Stop: 38609, Start Num: 12

Candidate Starts for Scuba_56:
(Start: 12 @37596 has 6 MA's), (17, 37623), (30, 37713), (31, 37749), (33, 37791), (34, 37809), (43, 37944), (47, 38022), (54, 38151), (59, 38202), (67, 38379),

Gene: WheatThin_30 Start: 25628, Stop: 26440, Start Num: 10
Candidate Starts for WheatThin_30:
(6, 25532), (Start: 9 @25619 has 5 MA's), (Start: 10 @25628 has 10 MA's), (17, 25661), (24, 25709), (30, 25760), (32, 25805), (34, 25856), (42, 25970), (47, 26069), (55, 26192), (58, 26231), (60, 26276), (61, 26336), (64, 26369), (66, 26402),

Gene: ZAYM_22 Start: 20018, Stop: 20857, Start Num: 12
Candidate Starts for ZAYM_22:
(1, 19754), (4, 19889), (7, 19928), (Start: 12 @20018 has 6 MA's), (17, 20045), (21, 20081), (23, 20093), (25, 20108), (29, 20141), (35, 20270), (40, 20348), (52, 20570), (56, 20612),