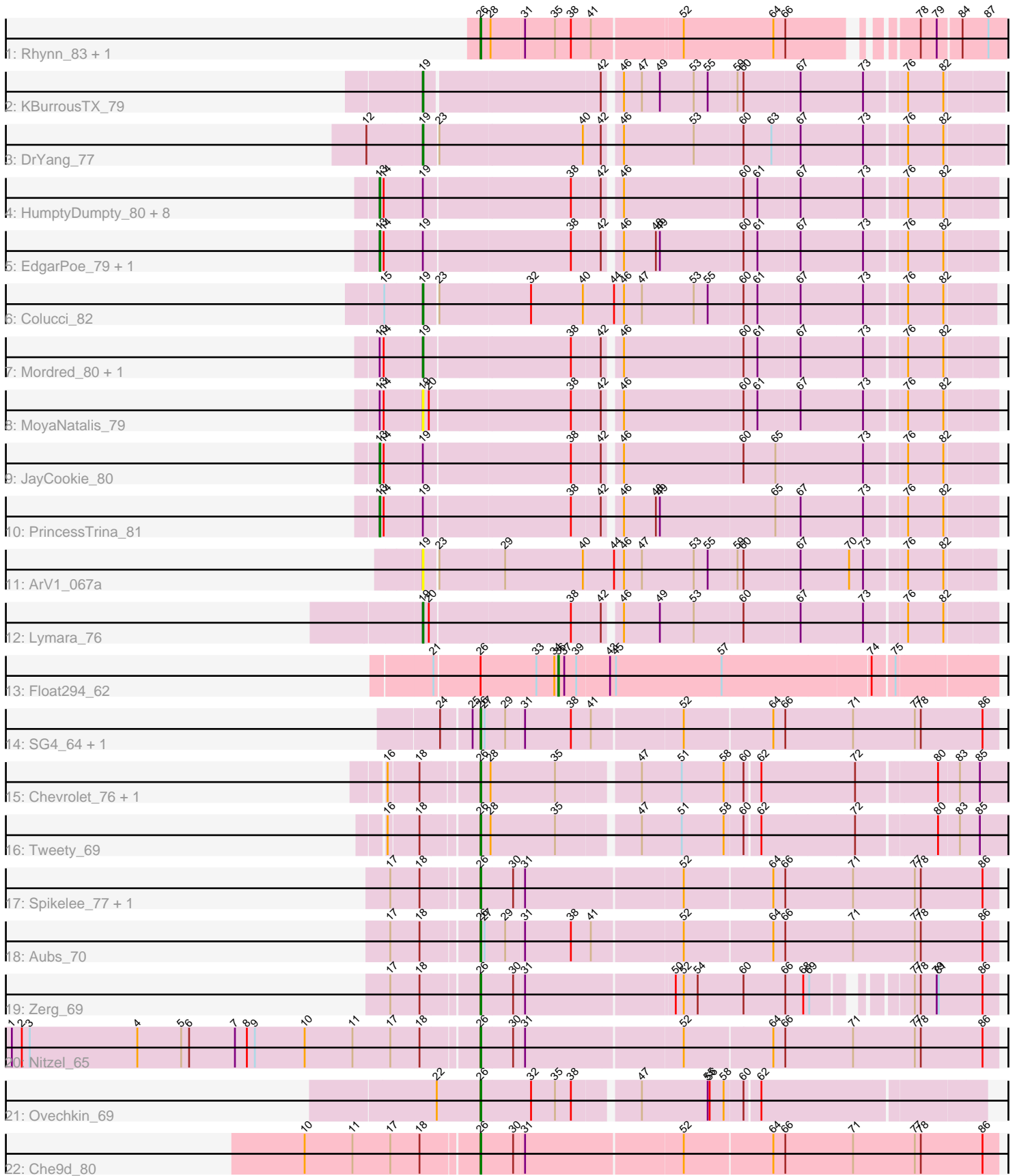


Pham 163773



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 163773 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163773 has 36 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Rhynn_83, KBG_84
- Track 2 : KBurroustX_79
- Track 3 : DrYang_77
- Track 4 : HumptyDumpty_80, Chocolat_80, Scavito_81, Kabreeze_80, Chipper1996_810, Linus_80, Tophat_81, Conboy_78, Chubster_81
- Track 5 : EdgarPoe_79, RosiePosie_80
- Track 6 : Colucci_82
- Track 7 : Mordred_80, JaNo_79
- Track 8 : MoyaNatalis_79
- Track 9 : JayCookie_80
- Track 10 : PrincessTrina_81
- Track 11 : ArV1_067a
- Track 12 : Lymara_76
- Track 13 : Float294_62
- Track 14 : SG4_64, ShroomBoi_71
- Track 15 : Chevrolet_76, ArcusAngelus_70
- Track 16 : Tweety_69
- Track 17 : Spikelee_77, Bubbles123_66
- Track 18 : Aubs_70
- Track 19 : Zerg_69
- Track 20 : Nitze_65
- Track 21 : Ovechkin_69
- Track 22 : Che9d_80

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

The start number called the most often in the published annotations is 13, it was called in 13 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996_810, Chocolat_80, Chubster_81, Conboy_78, EdgarPoe_79, HumptyDumpty_80, JayCookie_80, Kabreeze_80, Linus_80, PrincessTrina_81, RosiePosie_80, Scavito_81, Tophat_81,

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

- JaNo_79, Mordred_80, MoyaNatalis_79,

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

- ArV1_067a, ArcusAngelus_70, Aubs_70, Bubbles123_66, Che9d_80, Chevrolet_76, Colucci_82, DrYang_77, Float294_62, KBG_84, KBurrousTX_79, Lymara_76, Nitzel_65, Ovechkin_69, Rhynn_83, SG4_64, ShroomBoi_71, Spikelee_77, Tweety_69, Zerg_69,

Summary by start number:

Start 13:

- Found in 16 of 36 (44.4%) of genes in pham
- Manual Annotations of this start: 13 of 32
- Called 81.2% of time when present
- Phage (with cluster) where this start called: Chipper1996_810 (AR), Chocolat_80 (AR), Chubster_81 (AR), Conboy_78 (AR), EdgarPoe_79 (AR), HumptyDumpty_80 (AR), JayCookie_80 (AR), Kabreeze_80 (AR), Linus_80 (AR), PrincessTrina_81 (AR), RosiePosie_80 (AR), Scavito_81 (AR), Tophat_81 (AR),

Start 19:

- Found in 21 of 36 (58.3%) of genes in pham
- Manual Annotations of this start: 5 of 32
- Called 38.1% of time when present
- Phage (with cluster) where this start called: ArV1_067a (AR), Colucci_82 (AR), DrYang_77 (AR), JaNo_79 (AR), KBurrousTX_79 (AR), Lymara_76 (AR), Mordred_80 (AR), MoyaNatalis_79 (AR),

Start 26:

- Found in 15 of 36 (41.7%) of genes in pham
- Manual Annotations of this start: 13 of 32
- Called 93.3% of time when present
- Phage (with cluster) where this start called: ArcusAngelus_70 (F1), Aubs_70 (F1), Bubbles123_66 (F1), Che9d_80 (F2), Chevrolet_76 (F1), KBG_84 (A1), Nitzel_65 (F1), Ovechkin_69 (F1), Rhynn_83 (A1), SG4_64 (F1), ShroomBoi_71 (F1), Spikelee_77 (F1), Tweety_69 (F1), Zerg_69 (F1),

Start 36:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Float294_62 (CR3),

Summary by clusters:

There are 5 clusters represented in this pham: A1, F1, F2, AR, CR3,

Info for manual annotations of cluster A1:

- Start number 26 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster AR:

- Start number 13 was manually annotated 13 times for cluster AR.
- Start number 19 was manually annotated 5 times for cluster AR.

Info for manual annotations of cluster CR3:

- Start number 36 was manually annotated 1 time for cluster CR3.

Info for manual annotations of cluster F1:

- Start number 26 was manually annotated 10 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 26 was manually annotated 1 time for cluster F2.

Gene Information:

Gene: ArV1_067a Start: 51241, Stop: 52050, Start Num: 19

Candidate Starts for ArV1_067a:

(Start: 19 @51241 has 5 MA's), (23, 51256), (29, 51349), (40, 51466), (44, 51508), (46, 51523), (47, 51550), (53, 51628), (55, 51649), (59, 51691), (60, 51700), (67, 51781), (70, 51850), (73, 51871), (76, 51928), (82, 51979),

Gene: ArcusAngelus_70 Start: 43403, Stop: 44188, Start Num: 26

Candidate Starts for ArcusAngelus_70:

(16, 43280), (18, 43322), (Start: 26 @43403 has 13 MA's), (28, 43418), (35, 43514), (47, 43625), (51, 43685), (58, 43748), (60, 43775), (62, 43796), (72, 43931), (80, 44042), (83, 44072), (85, 44102),

Gene: Aubs_70 Start: 45656, Stop: 46414, Start Num: 26

Candidate Starts for Aubs_70:

(17, 45533), (18, 45575), (Start: 26 @45656 has 13 MA's), (27, 45662), (29, 45692), (31, 45719), (38, 45788), (41, 45818), (52, 45947), (64, 46076), (66, 46094), (71, 46196), (77, 46289), (78, 46298), (86, 46391),

Gene: Bubbles123_66 Start: 44845, Stop: 45603, Start Num: 26

Candidate Starts for Bubbles123_66:

(17, 44722), (18, 44764), (Start: 26 @44845 has 13 MA's), (30, 44893), (31, 44908), (52, 45136), (64, 45265), (66, 45283), (71, 45385), (77, 45478), (78, 45487), (86, 45580),

Gene: Che9d_80 Start: 45002, Stop: 45760, Start Num: 26

Candidate Starts for Che9d_80:

(10, 44750), (11, 44822), (17, 44879), (18, 44921), (Start: 26 @45002 has 13 MA's), (30, 45050), (31, 45065), (52, 45293), (64, 45422), (66, 45440), (71, 45542), (77, 45635), (78, 45644), (86, 45737),

Gene: Chevrolet_76 Start: 43404, Stop: 44189, Start Num: 26

Candidate Starts for Chevrolet_76:

(16, 43281), (18, 43323), (Start: 26 @43404 has 13 MA's), (28, 43419), (35, 43515), (47, 43626), (51, 43686), (58, 43749), (60, 43776), (62, 43797), (72, 43932), (80, 44043), (83, 44073), (85, 44103),

Gene: Chipper1996_810 Start: 52032, Stop: 52889, Start Num: 13

Candidate Starts for Chipper1996_810:

(Start: 13 @52032 has 13 MA's), (14, 52035), (Start: 19 @52089 has 5 MA's), (38, 52299), (42, 52341), (46, 52359), (60, 52536), (61, 52557), (67, 52617), (73, 52707), (76, 52764), (82, 52815),

Gene: Chocolat_80 Start: 51739, Stop: 52596, Start Num: 13

Candidate Starts for Chocolat_80:

(Start: 13 @51739 has 13 MA's), (14, 51742), (Start: 19 @51796 has 5 MA's), (38, 52006), (42, 52048), (46, 52066), (60, 52243), (61, 52264), (67, 52324), (73, 52414), (76, 52471), (82, 52522),

Gene: Chubster_81 Start: 52433, Stop: 53287, Start Num: 13

Candidate Starts for Chubster_81:

(Start: 13 @52433 has 13 MA's), (14, 52436), (Start: 19 @52490 has 5 MA's), (38, 52700), (42, 52742), (46, 52760), (60, 52937), (61, 52958), (67, 53018), (73, 53108), (76, 53165), (82, 53216),

Gene: Colucci_82 Start: 52514, Stop: 53323, Start Num: 19

Candidate Starts for Colucci_82:

(15, 52460), (Start: 19 @52514 has 5 MA's), (23, 52529), (32, 52661), (40, 52739), (44, 52781), (46, 52796), (47, 52823), (53, 52901), (55, 52922), (60, 52973), (61, 52994), (67, 53054), (73, 53144), (76, 53201), (82, 53252),

Gene: Conboy_78 Start: 51521, Stop: 52378, Start Num: 13

Candidate Starts for Conboy_78:

(Start: 13 @51521 has 13 MA's), (14, 51524), (Start: 19 @51578 has 5 MA's), (38, 51788), (42, 51830), (46, 51848), (60, 52025), (61, 52046), (67, 52106), (73, 52196), (76, 52253), (82, 52304),

Gene: DrYang_77 Start: 52275, Stop: 53081, Start Num: 19

Candidate Starts for DrYang_77:

(12, 52197), (Start: 19 @52275 has 5 MA's), (23, 52290), (40, 52500), (42, 52524), (46, 52542), (53, 52647), (60, 52719), (63, 52761), (67, 52800), (73, 52890), (76, 52947), (82, 52998),

Gene: EdgarPoe_79 Start: 51896, Stop: 52753, Start Num: 13

Candidate Starts for EdgarPoe_79:

(Start: 13 @51896 has 13 MA's), (14, 51899), (Start: 19 @51953 has 5 MA's), (38, 52163), (42, 52205), (46, 52223), (48, 52271), (49, 52277), (60, 52400), (61, 52421), (67, 52481), (73, 52571), (76, 52628), (82, 52679),

Gene: Float294_62 Start: 50332, Stop: 49703, Start Num: 36

Candidate Starts for Float294_62:

(21, 50515), (Start: 26 @50449 has 13 MA's), (33, 50365), (34, 50338), (Start: 36 @50332 has 1 MA's), (37, 50323), (39, 50305), (43, 50257), (45, 50248), (57, 50092), (74, 49876), (75, 49846),

Gene: HumptyDumpty_80 Start: 51699, Stop: 52556, Start Num: 13

Candidate Starts for HumptyDumpty_80:

(Start: 13 @51699 has 13 MA's), (14, 51702), (Start: 19 @51756 has 5 MA's), (38, 51966), (42, 52008), (46, 52026), (60, 52203), (61, 52224), (67, 52284), (73, 52374), (76, 52431), (82, 52482),

Gene: JaNo_79 Start: 51727, Stop: 52527, Start Num: 19

Candidate Starts for JaNo_79:

(Start: 13 @51670 has 13 MA's), (14, 51673), (Start: 19 @51727 has 5 MA's), (38, 51937), (42, 51979), (46, 51997), (60, 52174), (61, 52195), (67, 52255), (73, 52345), (76, 52402), (82, 52453),

Gene: JayCookie_80 Start: 52232, Stop: 53089, Start Num: 13

Candidate Starts for JayCookie_80:

(Start: 13 @52232 has 13 MA's), (14, 52235), (Start: 19 @52289 has 5 MA's), (38, 52499), (42, 52541), (46, 52559), (60, 52736), (65, 52784), (73, 52907), (76, 52964), (82, 53015),

Gene: KBG_84 Start: 51007, Stop: 50294, Start Num: 26

Candidate Starts for KBG_84:

(Start: 26 @51007 has 13 MA's), (28, 50992), (31, 50944), (35, 50899), (38, 50875), (41, 50845), (52, 50719), (64, 50584), (66, 50566), (78, 50416), (79, 50392), (84, 50359), (87, 50320),

Gene: KBurrousTX_79 Start: 53874, Stop: 54680, Start Num: 19

Candidate Starts for KBurrousTX_79:

(Start: 19 @53874 has 5 MA's), (42, 54123), (46, 54141), (47, 54168), (49, 54195), (53, 54246), (55, 54267), (59, 54309), (60, 54318), (67, 54399), (73, 54489), (76, 54546), (82, 54597),

Gene: Kabreeze_80 Start: 51756, Stop: 52613, Start Num: 13

Candidate Starts for Kabreeze_80:

(Start: 13 @51756 has 13 MA's), (14, 51759), (Start: 19 @51813 has 5 MA's), (38, 52023), (42, 52065), (46, 52083), (60, 52260), (61, 52281), (67, 52341), (73, 52431), (76, 52488), (82, 52539),

Gene: Linus_80 Start: 52204, Stop: 53061, Start Num: 13

Candidate Starts for Linus_80:

(Start: 13 @52204 has 13 MA's), (14, 52207), (Start: 19 @52261 has 5 MA's), (38, 52471), (42, 52513), (46, 52531), (60, 52708), (61, 52729), (67, 52789), (73, 52879), (76, 52936), (82, 52987),

Gene: Lymara_76 Start: 50618, Stop: 51418, Start Num: 19

Candidate Starts for Lymara_76:

(Start: 19 @50618 has 5 MA's), (20, 50627), (38, 50828), (42, 50870), (46, 50888), (49, 50942), (53, 50993), (60, 51065), (67, 51146), (73, 51236), (76, 51293), (82, 51344),

Gene: Mordred_80 Start: 51852, Stop: 52652, Start Num: 19

Candidate Starts for Mordred_80:

(Start: 13 @51795 has 13 MA's), (14, 51798), (Start: 19 @51852 has 5 MA's), (38, 52062), (42, 52104), (46, 52122), (60, 52299), (61, 52320), (67, 52380), (73, 52470), (76, 52527), (82, 52578),

Gene: MoyaNatalis_79 Start: 51735, Stop: 52535, Start Num: 19

Candidate Starts for MoyaNatalis_79:

(Start: 13 @51678 has 13 MA's), (14, 51681), (Start: 19 @51735 has 5 MA's), (20, 51744), (38, 51945), (42, 51987), (46, 52005), (60, 52182), (61, 52203), (67, 52263), (73, 52353), (76, 52410), (82, 52461),

Gene: Nitzel_65 Start: 42237, Stop: 42995, Start Num: 26

Candidate Starts for Nitzel_65:

(1, 41544), (2, 41559), (3, 41571), (4, 41733), (5, 41799), (6, 41811), (7, 41880), (8, 41898), (9, 41910), (10, 41985), (11, 42057), (17, 42114), (18, 42156), (Start: 26 @42237 has 13 MA's), (30, 42285), (31, 42300), (52, 42528), (64, 42657), (66, 42675), (71, 42777), (77, 42870), (78, 42879), (86, 42972),

Gene: Ovechkin_69 Start: 43705, Stop: 44415, Start Num: 26

Candidate Starts for Ovechkin_69:

(22, 43639), (Start: 26 @43705 has 13 MA's), (32, 43780), (35, 43816), (38, 43840), (47, 43927), (55, 44026), (56, 44029), (58, 44050), (60, 44077), (62, 44098),

Gene: PrincessTrina_81 Start: 52100, Stop: 52957, Start Num: 13

Candidate Starts for PrincessTrina_81:

(Start: 13 @52100 has 13 MA's), (14, 52103), (Start: 19 @52157 has 5 MA's), (38, 52367), (42, 52409), (46, 52427), (48, 52475), (49, 52481), (65, 52652), (67, 52685), (73, 52775), (76, 52832), (82, 52883),

Gene: Rhynn_83 Start: 50333, Stop: 49620, Start Num: 26

Candidate Starts for Rhynn_83:

(Start: 26 @50333 has 13 MA's), (28, 50318), (31, 50270), (35, 50225), (38, 50201), (41, 50171), (52, 50045), (64, 49910), (66, 49892), (78, 49742), (79, 49718), (84, 49685), (87, 49646),

Gene: RosiePosie_80 Start: 51884, Stop: 52741, Start Num: 13

Candidate Starts for RosiePosie_80:

(Start: 13 @51884 has 13 MA's), (14, 51887), (Start: 19 @51941 has 5 MA's), (38, 52151), (42, 52193), (46, 52211), (48, 52259), (49, 52265), (60, 52388), (61, 52409), (67, 52469), (73, 52559), (76, 52616), (82, 52667),

Gene: SG4_64 Start: 41908, Stop: 42666, Start Num: 26

Candidate Starts for SG4_64:

(24, 41854), (25, 41896), (Start: 26 @41908 has 13 MA's), (27, 41914), (29, 41944), (31, 41971), (38, 42040), (41, 42070), (52, 42199), (64, 42328), (66, 42346), (71, 42448), (77, 42541), (78, 42550), (86, 42643),

Gene: Scavito_81 Start: 51844, Stop: 52701, Start Num: 13

Candidate Starts for Scavito_81:

(Start: 13 @51844 has 13 MA's), (14, 51847), (Start: 19 @51901 has 5 MA's), (38, 52111), (42, 52153), (46, 52171), (60, 52348), (61, 52369), (67, 52429), (73, 52519), (76, 52576), (82, 52627),

Gene: ShroomBoi_71 Start: 45417, Stop: 46175, Start Num: 26

Candidate Starts for ShroomBoi_71:

(24, 45363), (25, 45405), (Start: 26 @45417 has 13 MA's), (27, 45423), (29, 45453), (31, 45480), (38, 45549), (41, 45579), (52, 45708), (64, 45837), (66, 45855), (71, 45957), (77, 46050), (78, 46059), (86, 46152),

Gene: Spikelee_77 Start: 47075, Stop: 47833, Start Num: 26

Candidate Starts for Spikelee_77:

(17, 46952), (18, 46994), (Start: 26 @47075 has 13 MA's), (30, 47123), (31, 47138), (52, 47366), (64, 47495), (66, 47513), (71, 47615), (77, 47708), (78, 47717), (86, 47810),

Gene: Tophat_81 Start: 52033, Stop: 52890, Start Num: 13

Candidate Starts for Tophat_81:

(Start: 13 @52033 has 13 MA's), (14, 52036), (Start: 19 @52090 has 5 MA's), (38, 52300), (42, 52342), (46, 52360), (60, 52537), (61, 52558), (67, 52618), (73, 52708), (76, 52765), (82, 52816),

Gene: Tweety_69 Start: 44484, Stop: 45269, Start Num: 26

Candidate Starts for Tweety_69:

(16, 44361), (18, 44403), (Start: 26 @44484 has 13 MA's), (28, 44499), (35, 44595), (47, 44706), (51, 44766), (58, 44829), (60, 44856), (62, 44877), (72, 45012), (80, 45123), (83, 45153), (85, 45183),

Gene: Zerg_69 Start: 44914, Stop: 45627, Start Num: 26

Candidate Starts for Zerg_69:

(17, 44791), (18, 44833), (Start: 26 @44914 has 13 MA's), (30, 44962), (31, 44977), (50, 45190), (52, 45202), (54, 45223), (60, 45292), (66, 45355), (68, 45382), (69, 45391), (77, 45502), (78, 45511), (79, 45535), (81, 45538), (86, 45604),