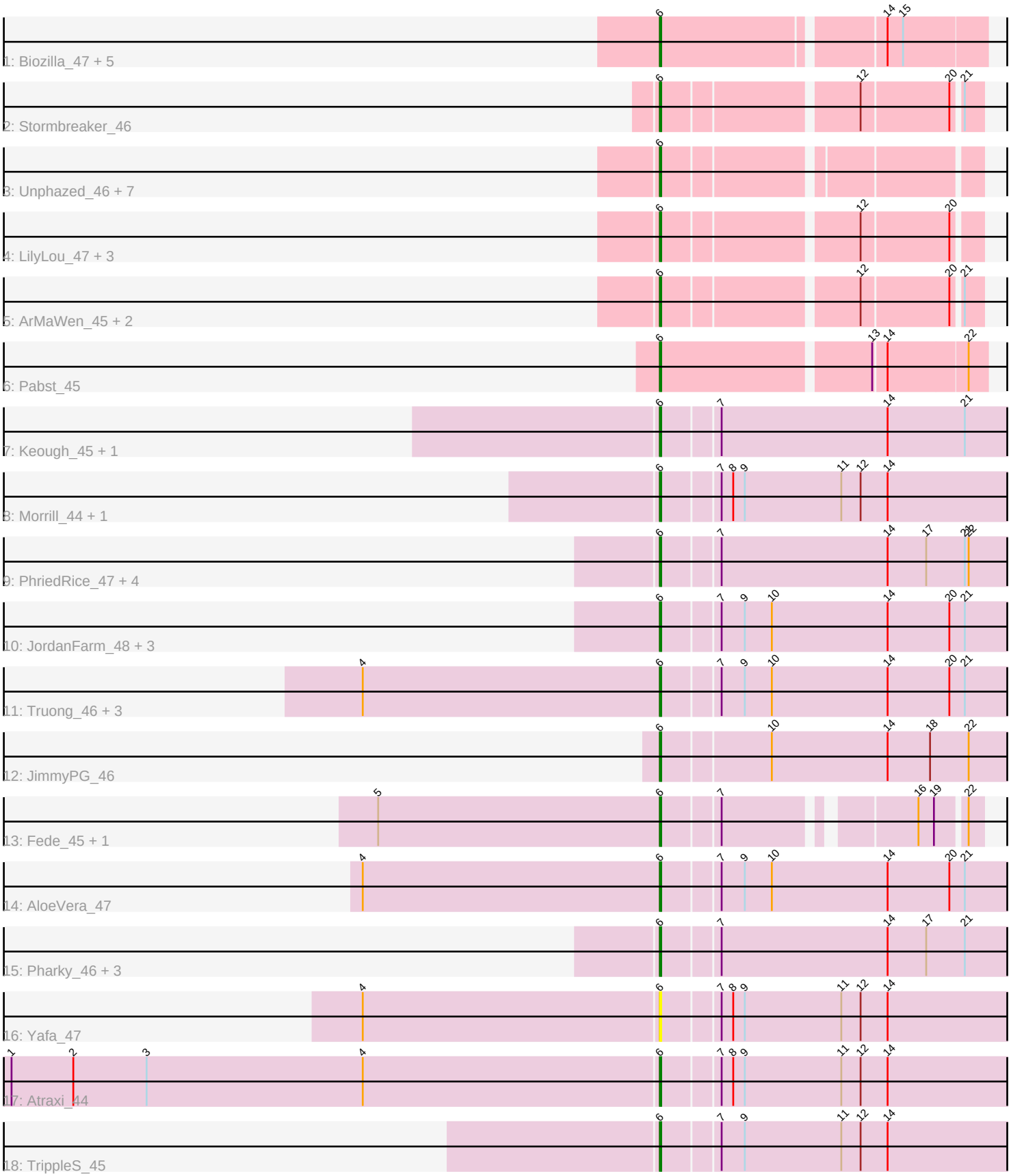
Pham 338335


1: Biozilla_47 + 5
2: Stormbreaker_46
3: Unphazed_46 + 7
4: LilyLou_47 + 3
5: ArMaWen_45 + 2
6: Pabst_45
7: Keough_45 + 1
8: Morrill_44 + 1
9: PhriedRice_47 + 4
10: JordanFarm_48 + 3
11: Truong_46 + 3
12: JimmyPG_46
13: Fede_45 + 1
14: AloeVera_47
15: Pharky_46 + 3
16: Yafa_47
17: Atraxi_44
18: TrippleS_45

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 338335 Report

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

Pham number 338335 has 51 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Biozilla_47, TicTac_47, HitchHiker_48, CrunchyBoi_48, Oatly_47, PineapplePluto_48
• Track 2 : Stormbreaker_46
• Track 3 : Unphazed_46, Conditioner_45, Xitlalli_44, TownLake_44, Birdfeeder_44, Corn21_45, BlueRugrat_45, LesNorah_46
• Track 4 : LilyLou_47, Alex44_46, Phogo_46, Dashyla_45
• Track 5 : ArMaWen_45, DumpQuist_45, SwissCheezer_45
• Track 6 : Pabst_45
• Track 7 : Keough_45, Mazun_47
• Track 8 : Morrill_44, ThirteenKH_46
• Track 9 : PhriedRice_47, Astartes_46, RicoCaldo_46, Moleficent_46, Fullmetal_46
• Track 10 : JordanFarm_48, Ashton_47, SoilSleuth_48, Waterlily_49
• Track 11 : Truong_46, Barroma_45, ShyRosie_46, Akoni_46
• Track 12 : JimmyPG_46
• Track 13 : Fede_45, Kosier_45
• Track 14 : AloeVera_47
• Track 15 : Pharky_46, Phractured_46, Phedro_46, StagePhright_46
• Track 16 : Yafa_47
• Track 17 : Atraxi_44
• Track 18 : TrippleS_45

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

The start number called the most often in the published annotations is 6, it was called in 45 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akoni_46, Alex44_46, AloeVera_47, ArMaWen_45, Ashton_47, Astartes_46, Atraxi_44, Barroma_45, Biozilla_47, Birdfeeder_44, BlueRugrat_45, Conditioner_45, Corn21_45, CrunchyBoi_48, Dashyla_45, DumpQuist_45, Fede_45, Fullmetal_46, HitchHiker_48, JimmyPG_46, JordanFarm_48, Keough_45, Kosier_45, LesNorah_46, LilyLou_47, Mazun_47, Moleficent_46, Morrill_44, Oatly_47, Pabst_45, Pharky_46, Phedro_46, Phogo_46, Phractured_46, PhriedRice_47, PineapplePluto_48, RicoCaldo_46, ShyRosie_46, SoilSleuth_48, StagePhright_46, Stormbreaker_46,

SwissCheezer_45, ThirteenKH_46, TicTac_47, TownLake_44, TrippleS_45, Truong_46, Unphazed_46, Waterlily_49, Xitlalli_44, Yafa_47,

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

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

Summary by start number:

Start 6:
• Found in 51 of 51 (100.0%) of genes in pham
• Manual Annotations of this start: 45 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Akoni_46 (EK2), Alex44_46 (EK1), AloeVera_47 (EK2), ArMaWen_45 (EK1), Ashton_47 (EK2), Astartes_46 (EK2), Atraxi_44 (EK2), Barroma_45 (EK2), Biozilla_47 (EK1), Birdfeeder_44 (EK1), BlueRugrat_45 (EK1), Conditioner_45 (EK1), Corn21_45 (EK1), CrunchyBoi_48 (EK1), Dashyla_45 (EK1), DumpQuist_45 (EK1), Fede_45 (EK2), Fullmetal_46 (EK2), HitchHiker_48 (EK1), JimmyPG_46 (EK2), JordanFarm_48 (EK2), Keough_45 (EK2), Kosier_45 (EK2), LesNorah_46 (EK1), LilyLou_47 (EK1), Mazun_47 (EK2), Moleficent_46 (EK2), Morrill_44 (EK2), Oatly_47 (EK1), Pabst_45 (EK1), Pharky_46 (EK2), Phedro_46 (EK2), Phogo_46 (EK1), Phractured_46 (EK2), PhriedRice_47 (EK2), PineapplePluto_48 (EK1), RicoCaldo_46 (EK2), ShyRosie_46 (EK2), SoilSleuth_48 (EK2), StagePhright_46 (EK2), Stormbreaker_46 (EK1), SwissCheezer_45 (EK1), ThirteenKH_46 (EK2), TicTac_47 (EK1), TownLake_44 (EK1), TrippleS_45 (EK2), Truong_46 (EK2), Unphazed_46 (EK1), Waterlily_49 (EK2), Xitlalli_44 (EK1), Yafa_47 (EK2),

Summary by clusters:

There are 2 clusters represented in this pham: EK2, EK1,

Info for manual annotations of cluster EK1:
•Start number 6 was manually annotated 22 times for cluster EK1.

Info for manual annotations of cluster EK2:
•Start number 6 was manually annotated 23 times for cluster EK2.

Gene Information:

Gene: Akoni_46 Start: 47955, Stop: 48233, Start Num: 6
Candidate Starts for Akoni_46:
(4, 47724), (Start: 6 @47955 has 45 MA's), (7, 47997), (9, 48015), (10, 48036), (14, 48126), (20, 48174), (21, 48186),

Gene: Alex44_46 Start: 46219, Stop: 46446, Start Num: 6
Candidate Starts for Alex44_46:
(Start: 6 @46219 has 45 MA's), (12, 46360), (20, 46426),

Gene: AloeVera_47 Start: 48168, Stop: 48446, Start Num: 6
Candidate Starts for AloeVera_47:
(4, 47937), (Start: 6 @48168 has 45 MA's), (7, 48210), (9, 48228), (10, 48249), (14, 48339), (20, 48387), (21, 48399),

Gene: ArMaWen_45 Start: 45762, Stop: 45989, Start Num: 6
Candidate Starts for ArMaWen_45:
(Start: 6 @45762 has 45 MA's), (12, 45903), (20, 45969), (21, 45975),

Gene: Ashton_47 Start: 48167, Stop: 48445, Start Num: 6
Candidate Starts for Ashton_47:
(Start: 6 @48167 has 45 MA's), (7, 48209), (9, 48227), (10, 48248), (14, 48338), (20, 48386), (21, 48398),

Gene: Astartes_46 Start: 47708, Stop: 47983, Start Num: 6
Candidate Starts for Astartes_46:
(Start: 6 @47708 has 45 MA's), (7, 47750), (14, 47879), (17, 47909), (21, 47939), (22, 47942),

Gene: Atraxi_44 Start: 47500, Stop: 47775, Start Num: 6
Candidate Starts for Atraxi_44:
(1, 46999), (2, 47047), (3, 47104), (4, 47272), (Start: 6 @47500 has 45 MA's), (7, 47542), (8, 47551), (9, 47560), (11, 47635), (12, 47650), (14, 47671),

Gene: Barroma_45 Start: 47957, Stop: 48235, Start Num: 6
Candidate Starts for Barroma_45:
(4, 47726), (Start: 6 @47957 has 45 MA's), (7, 47999), (9, 48017), (10, 48038), (14, 48128), (20, 48176), (21, 48188),

Gene: Biozilla_47 Start: 46166, Stop: 46402, Start Num: 6
Candidate Starts for Biozilla_47:
(Start: 6 @46166 has 45 MA's), (14, 46328), (15, 46340),

Gene: Birdfeeder_44 Start: 45975, Stop: 46196, Start Num: 6
Candidate Starts for Birdfeeder_44:
(Start: 6 @45975 has 45 MA's),

Gene: BlueRugrat_45 Start: 46199, Stop: 46420, Start Num: 6
Candidate Starts for BlueRugrat_45:
(Start: 6 @46199 has 45 MA's),

Gene: Conditioner_45 Start: 46272, Stop: 46493, Start Num: 6
Candidate Starts for Conditioner_45:
(Start: 6 @46272 has 45 MA's),

Gene: Corn21_45 Start: 46277, Stop: 46498, Start Num: 6
Candidate Starts for Corn21_45:
(Start: 6 @46277 has 45 MA's),

Gene: CrunchyBoi_48 Start: 46021, Stop: 46257, Start Num: 6
Candidate Starts for CrunchyBoi_48:
(Start: 6 @46021 has 45 MA's), (14, 46183), (15, 46195),

Gene: Dashyla_45 Start: 45893, Stop: 46120, Start Num: 6

Candidate Starts for Dashyla_45:
(Start: 6 @45893 has 45 MA's), (12, 46034), (20, 46100),

Gene: DumpQuist_45 Start: 45747, Stop: 45974, Start Num: 6
Candidate Starts for DumpQuist_45:
(Start: 6 @45747 has 45 MA's), (12, 45888), (20, 45954), (21, 45960),

Gene: Fede_45 Start: 46720, Stop: 46935, Start Num: 6
Candidate Starts for Fede_45:
(5, 46501), (Start: 6 @46720 has 45 MA's), (7, 46762), (16, 46891), (19, 46903), (22, 46924),

Gene: Fullmetal_46 Start: 48043, Stop: 48318, Start Num: 6
Candidate Starts for Fullmetal_46:
(Start: 6 @48043 has 45 MA's), (7, 48085), (14, 48214), (17, 48244), (21, 48274), (22, 48277),

Gene: HitchHiker_48 Start: 46166, Stop: 46402, Start Num: 6
Candidate Starts for HitchHiker_48:
(Start: 6 @46166 has 45 MA's), (14, 46328), (15, 46340),

Gene: JimmyPG_46 Start: 48402, Stop: 48677, Start Num: 6
Candidate Starts for JimmyPG_46:
(Start: 6 @48402 has 45 MA's), (10, 48483), (14, 48573), (18, 48606), (22, 48636),

Gene: JordanFarm_48 Start: 48168, Stop: 48446, Start Num: 6
Candidate Starts for JordanFarm_48:
(Start: 6 @48168 has 45 MA's), (7, 48210), (9, 48228), (10, 48249), (14, 48339), (20, 48387), (21, 48399),

Gene: Keough_45 Start: 47839, Stop: 48114, Start Num: 6
Candidate Starts for Keough_45:
(Start: 6 @47839 has 45 MA's), (7, 47881), (14, 48010), (21, 48070),

Gene: Kosier_45 Start: 46664, Stop: 46879, Start Num: 6
Candidate Starts for Kosier_45:
(5, 46445), (Start: 6 @46664 has 45 MA's), (7, 46706), (16, 46835), (19, 46847), (22, 46868),

Gene: LesNorah_46 Start: 46596, Stop: 46817, Start Num: 6
Candidate Starts for LesNorah_46:
(Start: 6 @46596 has 45 MA's),

Gene: LilyLou_47 Start: 46211, Stop: 46438, Start Num: 6
Candidate Starts for LilyLou_47:
(Start: 6 @46211 has 45 MA's), (12, 46352), (20, 46418),

Gene: Mazun_47 Start: 48446, Stop: 48721, Start Num: 6
Candidate Starts for Mazun_47:
(Start: 6 @48446 has 45 MA's), (7, 48488), (14, 48617), (21, 48677),

Gene: Moleficent_46 Start: 48050, Stop: 48325, Start Num: 6
Candidate Starts for Moleficent_46:
(Start: 6 @48050 has 45 MA's), (7, 48092), (14, 48221), (17, 48251), (21, 48281), (22, 48284),

Gene: Morrill_44 Start: 47480, Stop: 47755, Start Num: 6

Candidate Starts for Morrill_44:
(Start: 6 @47480 has 45 MA's), (7, 47522), (8, 47531), (9, 47540), (11, 47615), (12, 47630), (14, 47651),

Gene: Oatly_47 Start: 45726, Stop: 45962, Start Num: 6
Candidate Starts for Oatly_47:
(Start: 6 @45726 has 45 MA's), (14, 45888), (15, 45900),

Gene: Pabst_45 Start: 45787, Stop: 46026, Start Num: 6
Candidate Starts for Pabst_45:
(Start: 6 @45787 has 45 MA's), (13, 45943), (14, 45952), (22, 46012),

Gene: Pharky_46 Start: 48046, Stop: 48321, Start Num: 6
Candidate Starts for Pharky_46:
(Start: 6 @48046 has 45 MA's), (7, 48088), (14, 48217), (17, 48247), (21, 48277),

Gene: Phedro_46 Start: 48046, Stop: 48321, Start Num: 6
Candidate Starts for Phedro_46:
(Start: 6 @48046 has 45 MA's), (7, 48088), (14, 48217), (17, 48247), (21, 48277),

Gene: Phogo_46 Start: 46039, Stop: 46266, Start Num: 6
Candidate Starts for Phogo_46:
(Start: 6 @46039 has 45 MA's), (12, 46180), (20, 46246),

Gene: Phractured_46 Start: 48046, Stop: 48321, Start Num: 6
Candidate Starts for Phractured_46:
(Start: 6 @48046 has 45 MA's), (7, 48088), (14, 48217), (17, 48247), (21, 48277),

Gene: PhriedRice_47 Start: 48150, Stop: 48425, Start Num: 6
Candidate Starts for PhriedRice_47:
(Start: 6 @48150 has 45 MA's), (7, 48192), (14, 48321), (17, 48351), (21, 48381), (22, 48384),

Gene: PineapplePluto_48 Start: 46088, Stop: 46324, Start Num: 6
Candidate Starts for PineapplePluto_48:
(Start: 6 @46088 has 45 MA's), (14, 46250), (15, 46262),

Gene: RicoCaldo_46 Start: 48128, Stop: 48403, Start Num: 6
Candidate Starts for RicoCaldo_46:
(Start: 6 @48128 has 45 MA's), (7, 48170), (14, 48299), (17, 48329), (21, 48359), (22, 48362),

Gene: ShyRosie_46 Start: 48177, Stop: 48455, Start Num: 6
Candidate Starts for ShyRosie_46:
(4, 47946), (Start: 6 @48177 has 45 MA's), (7, 48219), (9, 48237), (10, 48258), (14, 48348), (20, 48396), (21, 48408),

Gene: SoilSleuth_48 Start: 47999, Stop: 48277, Start Num: 6
Candidate Starts for SoilSleuth_48:
(Start: 6 @47999 has 45 MA's), (7, 48041), (9, 48059), (10, 48080), (14, 48170), (20, 48218), (21, 48230),

Gene: StagePhright_46 Start: 48046, Stop: 48321, Start Num: 6
Candidate Starts for StagePhright_46:
(Start: 6 @48046 has 45 MA's), (7, 48088), (14, 48217), (17, 48247), (21, 48277),

Gene: Stormbreaker_46 Start: 46127, Stop: 46354, Start Num: 6
Candidate Starts for Stormbreaker_46:
(Start: 6 @46127 has 45 MA's), (12, 46268), (20, 46334), (21, 46340),

Gene: SwissCheezer_45 Start: 45779, Stop: 46006, Start Num: 6
Candidate Starts for SwissCheezer_45:
(Start: 6 @45779 has 45 MA's), (12, 45920), (20, 45986), (21, 45992),

Gene: ThirteenKH_46 Start: 47490, Stop: 47765, Start Num: 6
Candidate Starts for ThirteenKH_46:
(Start: 6 @47490 has 45 MA's), (7, 47532), (8, 47541), (9, 47550), (11, 47625), (12, 47640), (14, 47661),

Gene: TicTac_47 Start: 46096, Stop: 46332, Start Num: 6
Candidate Starts for TicTac_47:
(Start: 6 @46096 has 45 MA's), (14, 46258), (15, 46270),

Gene: TownLake_44 Start: 45886, Stop: 46107, Start Num: 6
Candidate Starts for TownLake_44:
(Start: 6 @45886 has 45 MA's),

Gene: TrippleS_45 Start: 47639, Stop: 47914, Start Num: 6
Candidate Starts for TrippleS_45:
(Start: 6 @47639 has 45 MA's), (7, 47681), (9, 47699), (11, 47774), (12, 47789), (14, 47810),

Gene: Truong_46 Start: 47957, Stop: 48235, Start Num: 6
Candidate Starts for Truong_46:
(4, 47726), (Start: 6 @47957 has 45 MA's), (7, 47999), (9, 48017), (10, 48038), (14, 48128), (20, 48176), (21, 48188),

Gene: Unphazed_46 Start: 46000, Stop: 46224, Start Num: 6
Candidate Starts for Unphazed_46:
(Start: 6 @46000 has 45 MA's),

Gene: Waterlily_49 Start: 48208, Stop: 48486, Start Num: 6
Candidate Starts for Waterlily_49:
(Start: 6 @48208 has 45 MA's), (7, 48250), (9, 48268), (10, 48289), (14, 48379), (20, 48427), (21, 48439),

Gene: Xitlalli_44 Start: 46004, Stop: 46225, Start Num: 6
Candidate Starts for Xitlalli_44:
(Start: 6 @46004 has 45 MA's),

Gene: Yafa_47 Start: 47394, Stop: 47669, Start Num: 6
Candidate Starts for Yafa_47:
(4, 47166), (Start: 6 @47394 has 45 MA's), (7, 47436), (8, 47445), (9, 47454), (11, 47529), (12, 47544), (14, 47565),