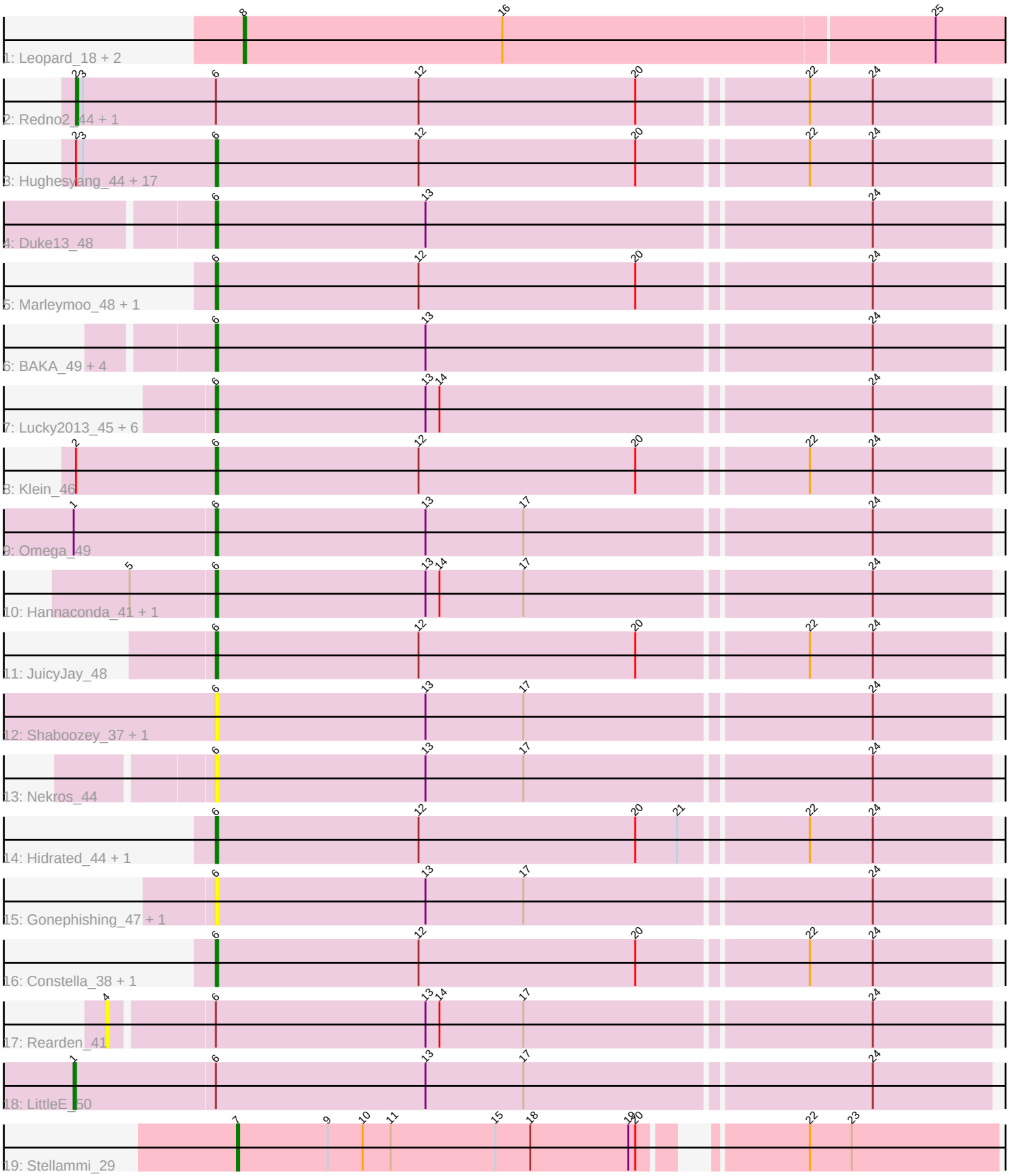
Pham 347678


1: Leopard_18 + 2
2: Redno2_44 + 1
3: Hughesyang_44 + 17
4: Duke13_48
5: Marleymoo_48 + 1
6: BAKA_49 + 4
7: Lucky2013_45 + 6
8: Klein_46
9: Omega_49
10: Hannaconda_41 + 1
11: JuicyJay_48
12: Shaboozey_37 + 1
13: Nekros_44
14: Hidrated_44 + 1
15: Gonephishing_47 + 1
16: Constella_38 + 1
17: Rearden_41
18: LittleE_50
19: Stellammi_29

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 347678 Report

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

Pham number 347678 has 55 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Leopard_18, Aikoy_18, Onyinye_19
• Track 2 : Redno2_44, Dove_43
• Track 3 : Hughesyang_44, Halley_46, Odette_46, EricMillard_46, HokkenD_39, Dallas_48, ThreeRngTarjay_44, Schatzie_43, NihilNomen_45, Bagrid_45, Ejimix_46, Pound_47, Phoebus_45, Kalah2_46, Bombitas_42, Yeet_44, Beem_46, Zelink_47
• Track 4 : Duke13_48
• Track 5 : Marleymoo_48, Thibault_40
• Track 6 : BAKA_49, Optimus_50, Wanda_51, DmpstrDiver_46, Minerva_51
• Track 7 : Lucky2013_45, Courthouse_45, Porcelain_44, Ariel_45, Superphikiman_45, Squint_44, MiaZeal_45
• Track 8 : Klein_46
• Track 9 : Omega_49
• Track 10 : Hannaconda_41, KashFlow_38
• Track 11 : JuicyJay_48
• Track 12 : Shaboozey_37, BronnyJames_37
• Track 13 : Nekros_44
• Track 14 : Hidrated_44, Bobby_45
• Track 15 : Gonephishing_47, Nibley_40
• Track 16 : Constella_38, Xiaokay_41
• Track 17 : Rearden_41
• Track 18 : LittleE_50
• Track 19 : Stellammi_29

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 38 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariel_45, BAKA_49, Bagrid_45, Beem_46, Bobby_45, Bombitas_42, BronnyJames_37, Constella_38, Courthouse_45, Dallas_48, DmpstrDiver_46, Duke13_48, Ejimix_46, EricMillard_46, Gonephishing_47, Halley_46, Hannaconda_41, Hidrated_44, HokkenD_39, Hughesyang_44, JuicyJay_48, Kalah2_46, KashFlow_38, Klein_46, Lucky2013_45, Marleymoo_48, MiaZeal_45,

Minerva_51, Nekros_44, Nibley_40, NihilNomen_45, Odette_46, Omega_49, Optimus_50, Phoebus_45, Porcelain_44, Pound_47, Schatzie_43, Shaboozey_37, Squint_44, Superphikiman_45, Thibault_40, ThreeRngTarjay_44, Wanda_51, Xiaokay_41, Yeet_44, Zelink_47,

Genes that have the "Most Annotated" start but do not call it:
• Dove_43, LittleE_50, Rearden_41, Redno2_44,

Genes that do not have the "Most Annotated" start:
• Aikoy_18, Leopard_18, Onyinye_19, Stellammi_29,

Summary by start number:

Start 1:
• Found in 2 of 55 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 45
• Called 50.0% of time when present
• Phage (with cluster) where this start called: LittleE_50 (J),

Start 2:
• Found in 21 of 55 (38.2%) of genes in pham
• Manual Annotations of this start: 2 of 45
• Called 9.5% of time when present
• Phage (with cluster) where this start called: Dove_43 (J), Redno2_44 (J),

Start 4:
• Found in 1 of 55 (1.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rearden_41 (J),

Start 6:
• Found in 51 of 55 (92.7%) of genes in pham
• Manual Annotations of this start: 38 of 45
• Called 92.2% of time when present
• Phage (with cluster) where this start called: Ariel_45 (J), BAKA_49 (J), Bagrid_45 (J), Beem_46 (J), Bobby_45 (J), Bombitas_42 (J), BronnyJames_37 (J), Constella_38 (J), Courthouse_45 (J), Dallas_48 (J), DmpstrDiver_46 (J), Duke13_48 (J), Ejimix_46 (J), EricMillard_46 (J), Gonephishing_47 (J), Halley_46 (J), Hannaconda_41 (J), Hidrated_44 (J), HokkenD_39 (J), Hughesyang_44 (J), JuicyJay_48 (J), Kalah2_46 (J), KashFlow_38 (J), Klein_46 (J), Lucky2013_45 (J), Marleymoo_48 (J), MiaZeal_45 (J), Minerva_51 (J), Nekros_44 (J), Nibley_40 (J), NihilNomen_45 (J), Odette_46 (J), Omega_49 (J), Optimus_50 (J), Phoebus_45 (J), Porcelain_44 (J), Pound_47 (J), Schatzie_43 (J), Shaboozey_37 (J), Squint_44 (J), Superphikiman_45 (J), Thibault_40 (J), ThreeRngTarjay_44 (J), Wanda_51 (J), Xiaokay_41 (J), Yeet_44 (J), Zelink_47 (J),

Start 7:
• Found in 1 of 55 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stellammi_29 (UNK),

Start 8:
• Found in 3 of 55 (5.5%) of genes in pham
• Manual Annotations of this start: 3 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikoy_18 (AE), Leopard_18 (AE), Onyinye_19 (AE),

Summary by clusters:

There are 3 clusters represented in this pham: UNK, J, AE,

Info for manual annotations of cluster AE:
•Start number 8 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster J:
•Start number 1 was manually annotated 1 time for cluster J.
•Start number 2 was manually annotated 2 times for cluster J.
•Start number 6 was manually annotated 38 times for cluster J.

Info for manual annotations of cluster UNK:
•Start number 7 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Aikoy_18 Start: 11557, Stop: 11889, Start Num: 8
Candidate Starts for Aikoy_18:
(Start: 8 @11557 has 3 MA's), (16, 11668), (25, 11851),

Gene: Ariel_45 Start: 36301, Stop: 36627, Start Num: 6
Candidate Starts for Ariel_45:
(Start: 6 @36301 has 38 MA's), (13, 36391), (14, 36397), (24, 36577),

Gene: BAKA_49 Start: 39959, Stop: 40285, Start Num: 6
Candidate Starts for BAKA_49:
(Start: 6 @39959 has 38 MA's), (13, 40049), (24, 40235),

Gene: Bagrid_45 Start: 39888, Stop: 40214, Start Num: 6
Candidate Starts for Bagrid_45:
(Start: 2 @39828 has 2 MA's), (3, 39831), (Start: 6 @39888 has 38 MA's), (12, 39975), (20, 40068), (22, 40137), (24, 40164),

Gene: Beem_46 Start: 40454, Stop: 40780, Start Num: 6
Candidate Starts for Beem_46:
(Start: 2 @40394 has 2 MA's), (3, 40397), (Start: 6 @40454 has 38 MA's), (12, 40541), (20, 40634), (22, 40703), (24, 40730),

Gene: Bobby_45 Start: 38639, Stop: 38965, Start Num: 6
Candidate Starts for Bobby_45:
(Start: 6 @38639 has 38 MA's), (12, 38726), (20, 38819), (21, 38837), (22, 38888), (24, 38915),

Gene: Bombitas_42 Start: 39510, Stop: 39836, Start Num: 6

Candidate Starts for Bombitas_42:
(Start: 2 @39450 has 2 MA's), (3, 39453), (Start: 6 @39510 has 38 MA's), (12, 39597), (20, 39690), (22, 39759), (24, 39786),

Gene: BronnyJames_37 Start: 33633, Stop: 33959, Start Num: 6
Candidate Starts for BronnyJames_37:
(Start: 6 @33633 has 38 MA's), (13, 33723), (17, 33765), (24, 33909),

Gene: Constella_38 Start: 36585, Stop: 36911, Start Num: 6
Candidate Starts for Constella_38:
(Start: 6 @36585 has 38 MA's), (12, 36672), (20, 36765), (22, 36834), (24, 36861),

Gene: Courthouse_45 Start: 36705, Stop: 37031, Start Num: 6
Candidate Starts for Courthouse_45:
(Start: 6 @36705 has 38 MA's), (13, 36795), (14, 36801), (24, 36981),

Gene: Dallas_48 Start: 39979, Stop: 40305, Start Num: 6
Candidate Starts for Dallas_48:
(Start: 2 @39919 has 2 MA's), (3, 39922), (Start: 6 @39979 has 38 MA's), (12, 40066), (20, 40159), (22, 40228), (24, 40255),

Gene: DmpstrDiver_46 Start: 39388, Stop: 39714, Start Num: 6
Candidate Starts for DmpstrDiver_46:
(Start: 6 @39388 has 38 MA's), (13, 39478), (24, 39664),

Gene: Dove_43 Start: 39449, Stop: 39835, Start Num: 2
Candidate Starts for Dove_43:
(Start: 2 @39449 has 2 MA's), (3, 39452), (Start: 6 @39509 has 38 MA's), (12, 39596), (20, 39689), (22, 39758), (24, 39785),

Gene: Duke13_48 Start: 39706, Stop: 40032, Start Num: 6
Candidate Starts for Duke13_48:
(Start: 6 @39706 has 38 MA's), (13, 39796), (24, 39982),

Gene: Ejimix_46 Start: 41239, Stop: 41565, Start Num: 6
Candidate Starts for Ejimix_46:
(Start: 2 @41179 has 2 MA's), (3, 41182), (Start: 6 @41239 has 38 MA's), (12, 41326), (20, 41419), (22, 41488), (24, 41515),

Gene: EricMillard_46 Start: 40740, Stop: 41066, Start Num: 6
Candidate Starts for EricMillard_46:
(Start: 2 @40680 has 2 MA's), (3, 40683), (Start: 6 @40740 has 38 MA's), (12, 40827), (20, 40920), (22, 40989), (24, 41016),

Gene: Gonephishing_47 Start: 38100, Stop: 38426, Start Num: 6
Candidate Starts for Gonephishing_47:
(Start: 6 @38100 has 38 MA's), (13, 38190), (17, 38232), (24, 38376),

Gene: Halley_46 Start: 40453, Stop: 40779, Start Num: 6
Candidate Starts for Halley_46:
(Start: 2 @40393 has 2 MA's), (3, 40396), (Start: 6 @40453 has 38 MA's), (12, 40540), (20, 40633), (22, 40702), (24, 40729),

Gene: Hannaconda_41 Start: 34272, Stop: 34598, Start Num: 6
Candidate Starts for Hannaconda_41:
(5, 34236), (Start: 6 @34272 has 38 MA's), (13, 34362), (14, 34368), (17, 34404), (24, 34548),

Gene: Hidrated_44 Start: 39831, Stop: 40157, Start Num: 6
Candidate Starts for Hidrated_44:
(Start: 6 @39831 has 38 MA's), (12, 39918), (20, 40011), (21, 40029), (22, 40080), (24, 40107),

Gene: HokkenD_39 Start: 38722, Stop: 39048, Start Num: 6
Candidate Starts for HokkenD_39:
(Start: 2 @38662 has 2 MA's), (3, 38665), (Start: 6 @38722 has 38 MA's), (12, 38809), (20, 38902), (22, 38971), (24, 38998),

Gene: Hughesyang_44 Start: 40382, Stop: 40708, Start Num: 6
Candidate Starts for Hughesyang_44:
(Start: 2 @40322 has 2 MA's), (3, 40325), (Start: 6 @40382 has 38 MA's), (12, 40469), (20, 40562), (22, 40631), (24, 40658),

Gene: JuicyJay_48 Start: 42202, Stop: 42528, Start Num: 6
Candidate Starts for JuicyJay_48:
(Start: 6 @42202 has 38 MA's), (12, 42289), (20, 42382), (22, 42451), (24, 42478),

Gene: Kalah2_46 Start: 40790, Stop: 41116, Start Num: 6
Candidate Starts for Kalah2_46:
(Start: 2 @40730 has 2 MA's), (3, 40733), (Start: 6 @40790 has 38 MA's), (12, 40877), (20, 40970), (22, 41039), (24, 41066),

Gene: KashFlow_38 Start: 33893, Stop: 34219, Start Num: 6
Candidate Starts for KashFlow_38:
(5, 33857), (Start: 6 @33893 has 38 MA's), (13, 33983), (14, 33989), (17, 34025), (24, 34169),

Gene: Klein_46 Start: 40014, Stop: 40340, Start Num: 6
Candidate Starts for Klein_46:
(Start: 2 @39954 has 2 MA's), (Start: 6 @40014 has 38 MA's), (12, 40101), (20, 40194), (22, 40263), (24, 40290),

Gene: Leopard_18 Start: 11842, Stop: 12174, Start Num: 8
Candidate Starts for Leopard_18:
(Start: 8 @11842 has 3 MA's), (16, 11953), (25, 12136),

Gene: LittleE_50 Start: 40192, Stop: 40578, Start Num: 1
Candidate Starts for LittleE_50:
(Start: 1 @40192 has 1 MA's), (Start: 6 @40252 has 38 MA's), (13, 40342), (17, 40384), (24, 40528),

Gene: Lucky2013_45 Start: 36841, Stop: 37167, Start Num: 6
Candidate Starts for Lucky2013_45:
(Start: 6 @36841 has 38 MA's), (13, 36931), (14, 36937), (24, 37117),

Gene: Marleymoo_48 Start: 40383, Stop: 40709, Start Num: 6
Candidate Starts for Marleymoo_48:
(Start: 6 @40383 has 38 MA's), (12, 40470), (20, 40563), (24, 40659),

Gene: MiaZeal_45 Start: 36516, Stop: 36842, Start Num: 6

Candidate Starts for MiaZeal_45:
(Start: 6 @36516 has 38 MA's), (13, 36606), (14, 36612), (24, 36792),

Gene: Minerva_51 Start: 41255, Stop: 41581, Start Num: 6
Candidate Starts for Minerva_51:
(Start: 6 @41255 has 38 MA's), (13, 41345), (24, 41531),

Gene: Nekros_44 Start: 39325, Stop: 39651, Start Num: 6
Candidate Starts for Nekros_44:
(Start: 6 @39325 has 38 MA's), (13, 39415), (17, 39457), (24, 39601),

Gene: Nibley_40 Start: 35347, Stop: 35673, Start Num: 6
Candidate Starts for Nibley_40:
(Start: 6 @35347 has 38 MA's), (13, 35437), (17, 35479), (24, 35623),

Gene: NihilNomen_45 Start: 40530, Stop: 40856, Start Num: 6
Candidate Starts for NihilNomen_45:
(Start: 2 @40470 has 2 MA's), (3, 40473), (Start: 6 @40530 has 38 MA's), (12, 40617), (20, 40710), (22, 40779), (24, 40806),

Gene: Odette_46 Start: 39763, Stop: 40089, Start Num: 6
Candidate Starts for Odette_46:
(Start: 2 @39703 has 2 MA's), (3, 39706), (Start: 6 @39763 has 38 MA's), (12, 39850), (20, 39943), (22, 40012), (24, 40039),

Gene: Omega_49 Start: 40896, Stop: 41222, Start Num: 6
Candidate Starts for Omega_49:
(Start: 1 @40836 has 1 MA's), (Start: 6 @40896 has 38 MA's), (13, 40986), (17, 41028), (24, 41172),

Gene: Onyinye_19 Start: 11723, Stop: 12055, Start Num: 8
Candidate Starts for Onyinye_19:
(Start: 8 @11723 has 3 MA's), (16, 11834), (25, 12017),

Gene: Optimus_50 Start: 40840, Stop: 41166, Start Num: 6
Candidate Starts for Optimus_50:
(Start: 6 @40840 has 38 MA's), (13, 40930), (24, 41116),

Gene: Phoebus_45 Start: 40740, Stop: 41066, Start Num: 6
Candidate Starts for Phoebus_45:
(Start: 2 @40680 has 2 MA's), (3, 40683), (Start: 6 @40740 has 38 MA's), (12, 40827), (20, 40920), (22, 40989), (24, 41016),

Gene: Porcelain_44 Start: 36516, Stop: 36842, Start Num: 6
Candidate Starts for Porcelain_44:
(Start: 6 @36516 has 38 MA's), (13, 36606), (14, 36612), (24, 36792),

Gene: Pound_47 Start: 41761, Stop: 42087, Start Num: 6
Candidate Starts for Pound_47:
(Start: 2 @41701 has 2 MA's), (3, 41704), (Start: 6 @41761 has 38 MA's), (12, 41848), (20, 41941), (22, 42010), (24, 42037),

Gene: Rearden_41 Start: 36738, Stop: 37106, Start Num: 4
Candidate Starts for Rearden_41:

(4, 36738), (Start: 6 @36780 has 38 MA's), (13, 36870), (14, 36876), (17, 36912), (24, 37056),

Gene: Redno2_44 Start: 37435, Stop: 37821, Start Num: 2
Candidate Starts for Redno2_44:
(Start: 2 @37435 has 2 MA's), (3, 37438), (Start: 6 @37495 has 38 MA's), (12, 37582), (20, 37675), (22, 37744), (24, 37771),

Gene: Schatzie_43 Start: 39511, Stop: 39837, Start Num: 6
Candidate Starts for Schatzie_43:
(Start: 2 @39451 has 2 MA's), (3, 39454), (Start: 6 @39511 has 38 MA's), (12, 39598), (20, 39691), (22, 39760), (24, 39787),

Gene: Shaboozey_37 Start: 33633, Stop: 33959, Start Num: 6
Candidate Starts for Shaboozey_37:
(Start: 6 @33633 has 38 MA's), (13, 33723), (17, 33765), (24, 33909),

Gene: Squint_44 Start: 36635, Stop: 36961, Start Num: 6
Candidate Starts for Squint_44:
(Start: 6 @36635 has 38 MA's), (13, 36725), (14, 36731), (24, 36911),

Gene: Stellammi_29 Start: 25052, Stop: 25357, Start Num: 7
Candidate Starts for Stellammi_29:
(Start: 7 @25052 has 1 MA's), (9, 25091), (10, 25106), (11, 25118), (15, 25163), (18, 25178), (19, 25220), (20, 25223), (22, 25277), (23, 25295),

Gene: Superphikiman_45 Start: 36707, Stop: 37033, Start Num: 6
Candidate Starts for Superphikiman_45:
(Start: 6 @36707 has 38 MA's), (13, 36797), (14, 36803), (24, 36983),

Gene: Thibault_40 Start: 37945, Stop: 38271, Start Num: 6
Candidate Starts for Thibault_40:
(Start: 6 @37945 has 38 MA's), (12, 38032), (20, 38125), (24, 38221),

Gene: ThreeRngTarjay_44 Start: 40590, Stop: 40916, Start Num: 6
Candidate Starts for ThreeRngTarjay_44:
(Start: 2 @40530 has 2 MA's), (3, 40533), (Start: 6 @40590 has 38 MA's), (12, 40677), (20, 40770), (22, 40839), (24, 40866),

Gene: Wanda_51 Start: 39732, Stop: 40058, Start Num: 6
Candidate Starts for Wanda_51:
(Start: 6 @39732 has 38 MA's), (13, 39822), (24, 40008),

Gene: Xiaokay_41 Start: 37348, Stop: 37674, Start Num: 6
Candidate Starts for Xiaokay_41:
(Start: 6 @37348 has 38 MA's), (12, 37435), (20, 37528), (22, 37597), (24, 37624),

Gene: Yeet_44 Start: 39749, Stop: 40075, Start Num: 6
Candidate Starts for Yeet_44:
(Start: 2 @39689 has 2 MA's), (3, 39692), (Start: 6 @39749 has 38 MA's), (12, 39836), (20, 39929), (22, 39998), (24, 40025),

Gene: Zelink_47 Start: 41534, Stop: 41860, Start Num: 6
Candidate Starts for Zelink_47:

(Start: 2 @41474 has 2 MA's), (3, 41477), (Start: 6 @41534 has 38 MA's), (12, 41621), (20, 41714), (22, 41783), (24, 41810),