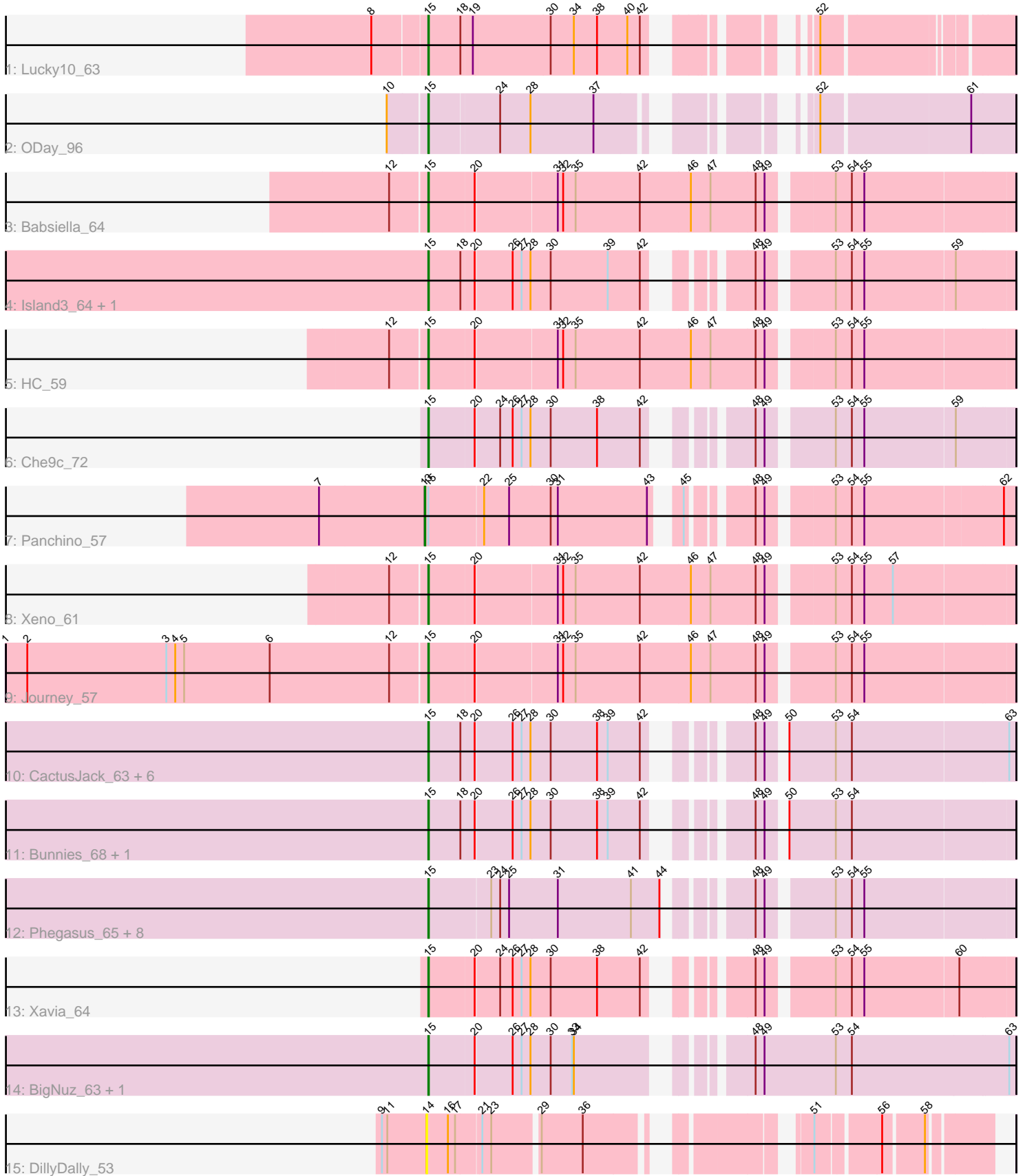


Pham 216404



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 216404 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216404 has 32 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Lucky10_63
- Track 2 : ODay_96
- Track 3 : Babsiella_64
- Track 4 : Island3_64, Brujita_63
- Track 5 : HC_59
- Track 6 : Che9c_72
- Track 7 : Panchino_57
- Track 8 : Xeno_61
- Track 9 : Journey_57
- Track 10 : CactusJack_63, StressBall_62, Glaske_62, Willsammy_64, KilKor_63, Phalm_63, Gavriela_62
- Track 11 : Bunnies_68, Ksquared_66
- Track 12 : Phegasus_65, Kari_60, Majeke_65, Langerak_62, Stuck_75, Fishburne_61, Etoile_60, Donovan_62, Mangethe_65
- Track 13 : Xavia_64
- Track 14 : BigNuz_63, Nazo_64
- Track 15 : DillyDally_53

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

The start number called the most often in the published annotations is 15, it was called in 26 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Babsiella_64, BigNuz_63, Brujita_63, Bunnies_68, CactusJack_63, Che9c_72, Donovan_62, Etoile_60, Fishburne_61, Gavriela_62, Glaske_62, HC_59, Island3_64, Journey_57, Kari_60, KilKor_63, Ksquared_66, Langerak_62, Lucky10_63, Majeke_65, Mangethe_65, Nazo_64, ODay_96, Phalm_63, Phegasus_65, StressBall_62, Stuck_75, Willsammy_64, Xavia_64, Xeno_61,

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

- Panchino_57,

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

- DillyDally_53,

Summary by start number:

Start 13:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Panchino_57 (N),

Start 14:

- Found in 1 of 32 (3.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DillyDally_53 (singleton),

Start 15:

- Found in 31 of 32 (96.9%) of genes in pham
- Manual Annotations of this start: 26 of 27
- Called 96.8% of time when present
- Phage (with cluster) where this start called: Babsiella_64 (I1), BigNuz_63 (P4), Brujita_63 (I1), Bunnies_68 (P1), CactusJack_63 (P1), Che9c_72 (I2), Donovan_62 (P1), Etoile_60 (P1), Fishburne_61 (P1), Gavriela_62 (P1), Glaske_62 (P1), HC_59 (I1), Island3_64 (I1), Journey_57 (N), Kari_60 (P1), KilKor_63 (P1), Ksquared_66 (P1), Langerak_62 (P1), Lucky10_63 (DH), Majeke_65 (P1), Mangethe_65 (P1), Nazo_64 (P4), ODay_96 (DN), Phalm_63 (P1), Phegasus_65 (P1), StressBall_62 (P1), Stuck_75 (I2), Willsammy_64 (P1), Xavia_64 (P3), Xeno_61 (N),

Summary by clusters:

There are 9 clusters represented in this pham: DN, P3, singleton, P1, DH, P4, I1, I2, N,

Info for manual annotations of cluster DH:

- Start number 15 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 15 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster I1:

- Start number 15 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 15 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster N:

- Start number 13 was manually annotated 1 time for cluster N.
- Start number 15 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 15 was manually annotated 14 times for cluster P1.

Info for manual annotations of cluster P3:

- Start number 15 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 15 was manually annotated 2 times for cluster P4.

Gene Information:

Gene: Babsiella_64 Start: 40664, Stop: 41602, Start Num: 15

Candidate Starts for Babsiella_64:

(12, 40604), (Start: 15 @40664 has 26 MA's), (20, 40739), (31, 40871), (32, 40880), (35, 40901), (42, 41009), (46, 41093), (47, 41126), (48, 41201), (49, 41216), (53, 41309), (54, 41336), (55, 41357),

Gene: BigNuz_63 Start: 41443, Stop: 42339, Start Num: 15

Candidate Starts for BigNuz_63:

(Start: 15 @41443 has 26 MA's), (20, 41518), (26, 41578), (27, 41593), (28, 41608), (30, 41641), (33, 41677), (34, 41680), (48, 41905), (49, 41920), (53, 42040), (54, 42067), (63, 42328),

Gene: Brujita_63 Start: 40794, Stop: 41660, Start Num: 15

Candidate Starts for Brujita_63:

(Start: 15 @40794 has 26 MA's), (18, 40848), (20, 40869), (26, 40929), (27, 40944), (28, 40959), (30, 40992), (39, 41088), (42, 41142), (48, 41256), (49, 41271), (53, 41367), (54, 41394), (55, 41415), (59, 41565),

Gene: Bunnies_68 Start: 42545, Stop: 43414, Start Num: 15

Candidate Starts for Bunnies_68:

(Start: 15 @42545 has 26 MA's), (18, 42599), (20, 42620), (26, 42680), (27, 42695), (28, 42710), (30, 42743), (38, 42821), (39, 42839), (42, 42893), (48, 43007), (49, 43022), (50, 43043), (53, 43121), (54, 43148),

Gene: CactusJack_63 Start: 41413, Stop: 42285, Start Num: 15

Candidate Starts for CactusJack_63:

(Start: 15 @41413 has 26 MA's), (18, 41467), (20, 41488), (26, 41548), (27, 41563), (28, 41578), (30, 41611), (38, 41689), (39, 41707), (42, 41761), (48, 41875), (49, 41890), (50, 41911), (53, 41989), (54, 42016), (63, 42274),

Gene: Che9c_72 Start: 50505, Stop: 51371, Start Num: 15

Candidate Starts for Che9c_72:

(Start: 15 @50505 has 26 MA's), (20, 50580), (24, 50619), (26, 50640), (27, 50655), (28, 50670), (30, 50703), (38, 50781), (42, 50853), (48, 50967), (49, 50982), (53, 51078), (54, 51105), (55, 51126), (59, 51276),

Gene: DillyDally_53 Start: 33082, Stop: 33858, Start Num: 14

Candidate Starts for DillyDally_53:

(9, 33007), (11, 33016), (14, 33082), (16, 33118), (17, 33130), (21, 33169), (23, 33184), (29, 33256), (36, 33325), (51, 33601), (56, 33697), (58, 33760),

Gene: Donovan_62 Start: 40357, Stop: 41247, Start Num: 15

Candidate Starts for Donovan_62:

(Start: 15 @40357 has 26 MA's), (23, 40459), (24, 40474), (25, 40489), (31, 40570), (41, 40693), (44, 40741), (48, 40843), (49, 40858), (53, 40954), (54, 40981), (55, 41002),

Gene: Etoile_60 Start: 40183, Stop: 41073, Start Num: 15

Candidate Starts for Etoile_60:

(Start: 15 @40183 has 26 MA's), (23, 40285), (24, 40300), (25, 40315), (31, 40396), (41, 40519), (44, 40567), (48, 40669), (49, 40684), (53, 40780), (54, 40807), (55, 40828),

Gene: Fishburne_61 Start: 40183, Stop: 41073, Start Num: 15

Candidate Starts for Fishburne_61:

(Start: 15 @40183 has 26 MA's), (23, 40285), (24, 40300), (25, 40315), (31, 40396), (41, 40519), (44, 40567), (48, 40669), (49, 40684), (53, 40780), (54, 40807), (55, 40828),

Gene: Gavriela_62 Start: 41106, Stop: 41978, Start Num: 15

Candidate Starts for Gavriela_62:

(Start: 15 @41106 has 26 MA's), (18, 41160), (20, 41181), (26, 41241), (27, 41256), (28, 41271), (30, 41304), (38, 41382), (39, 41400), (42, 41454), (48, 41568), (49, 41583), (50, 41604), (53, 41682), (54, 41709), (63, 41967),

Gene: Glaske_62 Start: 41413, Stop: 42285, Start Num: 15

Candidate Starts for Glaske_62:

(Start: 15 @41413 has 26 MA's), (18, 41467), (20, 41488), (26, 41548), (27, 41563), (28, 41578), (30, 41611), (38, 41689), (39, 41707), (42, 41761), (48, 41875), (49, 41890), (50, 41911), (53, 41989), (54, 42016), (63, 42274),

Gene: HC_59 Start: 38210, Stop: 39148, Start Num: 15

Candidate Starts for HC_59:

(12, 38150), (Start: 15 @38210 has 26 MA's), (20, 38285), (31, 38417), (32, 38426), (35, 38447), (42, 38555), (46, 38639), (47, 38672), (48, 38747), (49, 38762), (53, 38855), (54, 38882), (55, 38903),

Gene: Island3_64 Start: 40794, Stop: 41660, Start Num: 15

Candidate Starts for Island3_64:

(Start: 15 @40794 has 26 MA's), (18, 40848), (20, 40869), (26, 40929), (27, 40944), (28, 40959), (30, 40992), (39, 41088), (42, 41142), (48, 41256), (49, 41271), (53, 41367), (54, 41394), (55, 41415), (59, 41565),

Gene: Journey_57 Start: 37762, Stop: 38703, Start Num: 15

Candidate Starts for Journey_57:

(1, 37057), (2, 37093), (3, 37327), (4, 37342), (5, 37357), (6, 37501), (12, 37702), (Start: 15 @37762 has 26 MA's), (20, 37837), (31, 37969), (32, 37978), (35, 37999), (42, 38107), (46, 38191), (47, 38224), (48, 38299), (49, 38314), (53, 38410), (54, 38437), (55, 38458),

Gene: Kari_60 Start: 40180, Stop: 41070, Start Num: 15

Candidate Starts for Kari_60:

(Start: 15 @40180 has 26 MA's), (23, 40282), (24, 40297), (25, 40312), (31, 40393), (41, 40516), (44, 40564), (48, 40666), (49, 40681), (53, 40777), (54, 40804), (55, 40825),

Gene: KilKor_63 Start: 42106, Stop: 42978, Start Num: 15

Candidate Starts for KilKor_63:

(Start: 15 @42106 has 26 MA's), (18, 42160), (20, 42181), (26, 42241), (27, 42256), (28, 42271), (30, 42304), (38, 42382), (39, 42400), (42, 42454), (48, 42568), (49, 42583), (50, 42604), (53, 42682), (54, 42709), (63, 42967),

Gene: Ksquared_66 Start: 42422, Stop: 43291, Start Num: 15

Candidate Starts for Ksquared_66:

(Start: 15 @42422 has 26 MA's), (18, 42476), (20, 42497), (26, 42557), (27, 42572), (28, 42587), (30, 42620), (38, 42698), (39, 42716), (42, 42770), (48, 42884), (49, 42899), (50, 42920), (53, 42998), (54, 43025),

Gene: Langerak_62 Start: 40160, Stop: 41050, Start Num: 15

Candidate Starts for Langerak_62:

(Start: 15 @40160 has 26 MA's), (23, 40262), (24, 40277), (25, 40292), (31, 40373), (41, 40496), (44, 40544), (48, 40646), (49, 40661), (53, 40757), (54, 40784), (55, 40805),

Gene: Lucky10_63 Start: 39691, Stop: 40488, Start Num: 15

Candidate Starts for Lucky10_63:

(8, 39604), (Start: 15 @39691 has 26 MA's), (18, 39745), (19, 39763), (30, 39889), (34, 39928), (38, 39967), (40, 40018), (42, 40039), (52, 40207),

Gene: Majeke_65 Start: 40807, Stop: 41697, Start Num: 15

Candidate Starts for Majeke_65:

(Start: 15 @40807 has 26 MA's), (23, 40909), (24, 40924), (25, 40939), (31, 41020), (41, 41143), (44, 41191), (48, 41293), (49, 41308), (53, 41404), (54, 41431), (55, 41452),

Gene: Mangethe_65 Start: 40807, Stop: 41697, Start Num: 15

Candidate Starts for Mangethe_65:

(Start: 15 @40807 has 26 MA's), (23, 40909), (24, 40924), (25, 40939), (31, 41020), (41, 41143), (44, 41191), (48, 41293), (49, 41308), (53, 41404), (54, 41431), (55, 41452),

Gene: Nazo_64 Start: 41628, Stop: 42524, Start Num: 15

Candidate Starts for Nazo_64:

(Start: 15 @41628 has 26 MA's), (20, 41703), (26, 41763), (27, 41778), (28, 41793), (30, 41826), (33, 41862), (34, 41865), (48, 42090), (49, 42105), (53, 42225), (54, 42252), (63, 42513),

Gene: ODay_96 Start: 51151, Stop: 51972, Start Num: 15

Candidate Starts for ODay_96:

(10, 51088), (Start: 15 @51151 has 26 MA's), (24, 51265), (28, 51316), (37, 51421), (52, 51661), (61, 51898),

Gene: Panchino_57 Start: 39053, Stop: 39931, Start Num: 13

Candidate Starts for Panchino_57:

(7, 38876), (Start: 13 @39053 has 1 MA's), (Start: 15 @39059 has 26 MA's), (22, 39149), (25, 39191), (30, 39260), (31, 39272), (43, 39422), (45, 39449), (48, 39533), (49, 39548), (53, 39641), (54, 39668), (55, 39689), (62, 39914),

Gene: Phalm_63 Start: 41404, Stop: 42276, Start Num: 15

Candidate Starts for Phalm_63:

(Start: 15 @41404 has 26 MA's), (18, 41458), (20, 41479), (26, 41539), (27, 41554), (28, 41569), (30, 41602), (38, 41680), (39, 41698), (42, 41752), (48, 41866), (49, 41881), (50, 41902), (53, 41980), (54, 42007), (63, 42265),

Gene: Phegasus_65 Start: 40774, Stop: 41664, Start Num: 15

Candidate Starts for Phegasus_65:

(Start: 15 @40774 has 26 MA's), (23, 40876), (24, 40891), (25, 40906), (31, 40987), (41, 41110), (44, 41158), (48, 41260), (49, 41275), (53, 41371), (54, 41398), (55, 41419),

Gene: StressBall_62 Start: 41106, Stop: 41978, Start Num: 15

Candidate Starts for StressBall_62:

(Start: 15 @41106 has 26 MA's), (18, 41160), (20, 41181), (26, 41241), (27, 41256), (28, 41271), (30, 41304), (38, 41382), (39, 41400), (42, 41454), (48, 41568), (49, 41583), (50, 41604), (53, 41682), (54, 41709), (63, 41967),

Gene: Stuck_75 Start: 48448, Stop: 49338, Start Num: 15

Candidate Starts for Stuck_75:

(Start: 15 @48448 has 26 MA's), (23, 48550), (24, 48565), (25, 48580), (31, 48661), (41, 48784), (44, 48832), (48, 48934), (49, 48949), (53, 49045), (54, 49072), (55, 49093),

Gene: Willsammy_64 Start: 41590, Stop: 42462, Start Num: 15

Candidate Starts for Willsammy_64:

(Start: 15 @41590 has 26 MA's), (18, 41644), (20, 41665), (26, 41725), (27, 41740), (28, 41755), (30, 41788), (38, 41866), (39, 41884), (42, 41938), (48, 42052), (49, 42067), (50, 42088), (53, 42166), (54, 42193), (63, 42451),

Gene: Xavia_64 Start: 45674, Stop: 46540, Start Num: 15

Candidate Starts for Xavia_64:

(Start: 15 @45674 has 26 MA's), (20, 45749), (24, 45788), (26, 45809), (27, 45824), (28, 45839), (30, 45872), (38, 45950), (42, 46022), (48, 46136), (49, 46151), (53, 46247), (54, 46274), (55, 46295), (60, 46451),

Gene: Xeno_61 Start: 38162, Stop: 39100, Start Num: 15

Candidate Starts for Xeno_61:

(12, 38102), (Start: 15 @38162 has 26 MA's), (20, 38237), (31, 38369), (32, 38378), (35, 38399), (42, 38507), (46, 38591), (47, 38624), (48, 38699), (49, 38714), (53, 38807), (54, 38834), (55, 38855), (57, 38903),