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Genomics Project Report

1. Chromosome 1:

Alu Gene was found **22** times at the following indices:

**2641525, 8449993, 11503499, 11656442, 24298868, 28644799, 28833683, 44877100, 64360700, 70740977, 71612474, 77870356, 95806825, 99073162, 105771512, 137859163, 153036110, 168236475, 200986917, 211928224, 212503661, 227641686.**

With Median index: **71612474.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 2:

Alu Gene was found **21** times at the following indices:

**14899127, 20878180, 23357736, 35906786, 37107307, 46512264, 58000661, 61382588, 69985528, 70111760, 95229829, 107886118, 125497769, 129305729, 150145634, 150670419, 183068591, 186921924, 194919227, 204506433, 206533562.**

With Median index: **95229829.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 3:

Alu Gene was found **21** times at the following indices:

**2111960, 6330517, 11100037, 18106319, 32432301, 35480649, 47674043, 53209331, 64035019, 81332418, 95585310, 97950587, 110482218, 131515128, 134300941, 137707012, 137766917, 141808270, 166324346, 187963532, 190303560.**

With Median index: **95585310.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 4:

Alu Gene was found **18** times at the following indices:

**2964601, 5448251, 22782761, 40355794, 43382362, 44788430, 47991079, 51478162, 53004330, 60561886, 65224018, 70436138, 82485965, 95528910, 127566128, 131478744, 150629690, 158933754.**

With Median index: **53004330.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 5:

Alu Gene was found **15** times at the following indices:

**9709723, 11334199, 18320047, 19009336, 55476353, 84108386, 84372524, 94305717, 102929763, 111056630, 138368237, 139976705, 145428400, 150220568, 177842198.**

With Median index: **94305717.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 6:

Alu Gene was found **24** times at the following indices:

**2980690, 20279440, 23616928, 27130893, 30631984, 34513250, 34626763, 34698821, 43556083, 44665916, 44868690, 64391086, 74707362, 74984670, 79170522, 98510736, 107441127, 117743831, 118168691, 121626968, 124103754, 126285452, 152068065, 164351622.**

With Median index: **64391086.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 7:

Alu Gene was found **22** times at the following indices:

**8965726, 10641553, 11497231, 15814114, 44705645, 47045119, 47580660, 49126640, 66065638, 69668374, 72482360, 77015270, 77846482, 89430354, 106831280, 112306087, 123172302, 130982240, 136401452, 139008526, 139918428, 147842054.**

With Median index: **72482360.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 8:

Alu Gene was found **8** times at the following indices:

**9524972, 14957166, 31531402, 38686087, 63993875, 111083497, 112437270, 135202507.**

With Median index: **38686087.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 9:

Alu Gene was found **11** times at the following indices:

**6252406, 18288818, 19938652, 20767897, 39997510, 47962885, 78129395, 91823353, 95377005, 98210375, 102502022.**

With Median index: **47962885.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 10:

Alu Gene was found **13** times at the following indices:

**22178955, 28429979, 35217830, 36383281, 36386279, 42963312, 44458811, 62398164, 65486286, 73574870, 92563801, 121343289, 121526140.**

With Median index: **44458811.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 11:

Alu Gene was found **17** times at the following indices:

**30433178, 32189069, 43240335, 62140291, 63571820, 64314588, 75872630, 82482848, 82671419, 84434324, 96965451, 107864859, 115951881, 121288141, 126937245, 129117411, 129401509.**

With Median index: **82671419.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 12:

Alu Gene was found **9** times at the following indices:

**612216, 3893665, 6502076, 14319084, 16794383, 27291813, 50020464, 51054878, 55752584.**

With Median index: **16794383.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 13:

Alu Gene was found **9** times at the following indices:

**4743007, 14820670, 18508968, 58374424, 60998003, 73800510, 81706060, 84299242, 91985774.**

With Median index: **60998003.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 14:

Alu Gene was found **5** times at the following indices:

**4008154, 46393471, 51279375, 82020521, 86485404.**

With Median index: **51279375.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 15:

Alu Gene was found **9** times at the following indices:

**5346048, 11390483, 23311762, 23515773, 24858121, 39672073, 41505118, 49767978, 77392746.**

With Median index: **24858121.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 16:

Alu Gene was found **8** times at the following indices:

**2885421, 2899841, 3891207, 3914480, 24924461, 58411796, 75718497, 81281451.**

With Median index: **3914480.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 17:

Alu Gene was found **17** times at the following indices:

**2637051, 13875101, 14887240, 18306278, 20220478, 22369353, 37624963, 41543398, 42171666, 46505219, 49403514, 59033619, 59073617, 64673292, 65588198, 65958940, 67346700.**

With Median index: **42171666.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 18:

Alu Gene was found **6** times at the following indices:

**11549753, 31073597, 32857671, 58623835, 77504398, 77623727.**

With Median index: **32857671.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 19:

Alu Gene was found **14** times at the following indices:

**1615008, 7222780, 8929646, 17658042, 18019704, 21995860, 23137683, 33155687, 35813687, 48108931, 48483227, 49327764, 49915976, 57525614.**

With Median index: **23137683.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 20:

Alu Gene was found **4** times at the following indices:

**11240003, 19664098, 41931968, 53497583.**

With Median index: **19664098.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 21:

Alu Gene was found **3** times at the following indices:

**3711317, 27042931, 29757040.**

With Median index: **27042931.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome 22:

Alu Gene was found **4** times at the following indices:

**9991869, 13133192, 20001281, 32393619.**

With Median index: **13133192.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome X:

Alu Gene was found **13** times at the following indices:

**5860912, 11623242, 12568745, 30541028, 33182777, 37682747, 47860605, 50039534, 68736005, 96501531, 103968072, 135472817, 150373305.**

With Median index: **47860605.**

Alu Gene distribution on a 5-bin Histogram is found to be like:

1. Chromosome Y:

Alu Gene was found only once at the following index:

**7213740.**

With Median index: **7213740.**

Alu Gene distribution on a 5-bin Histogram is found to be like: